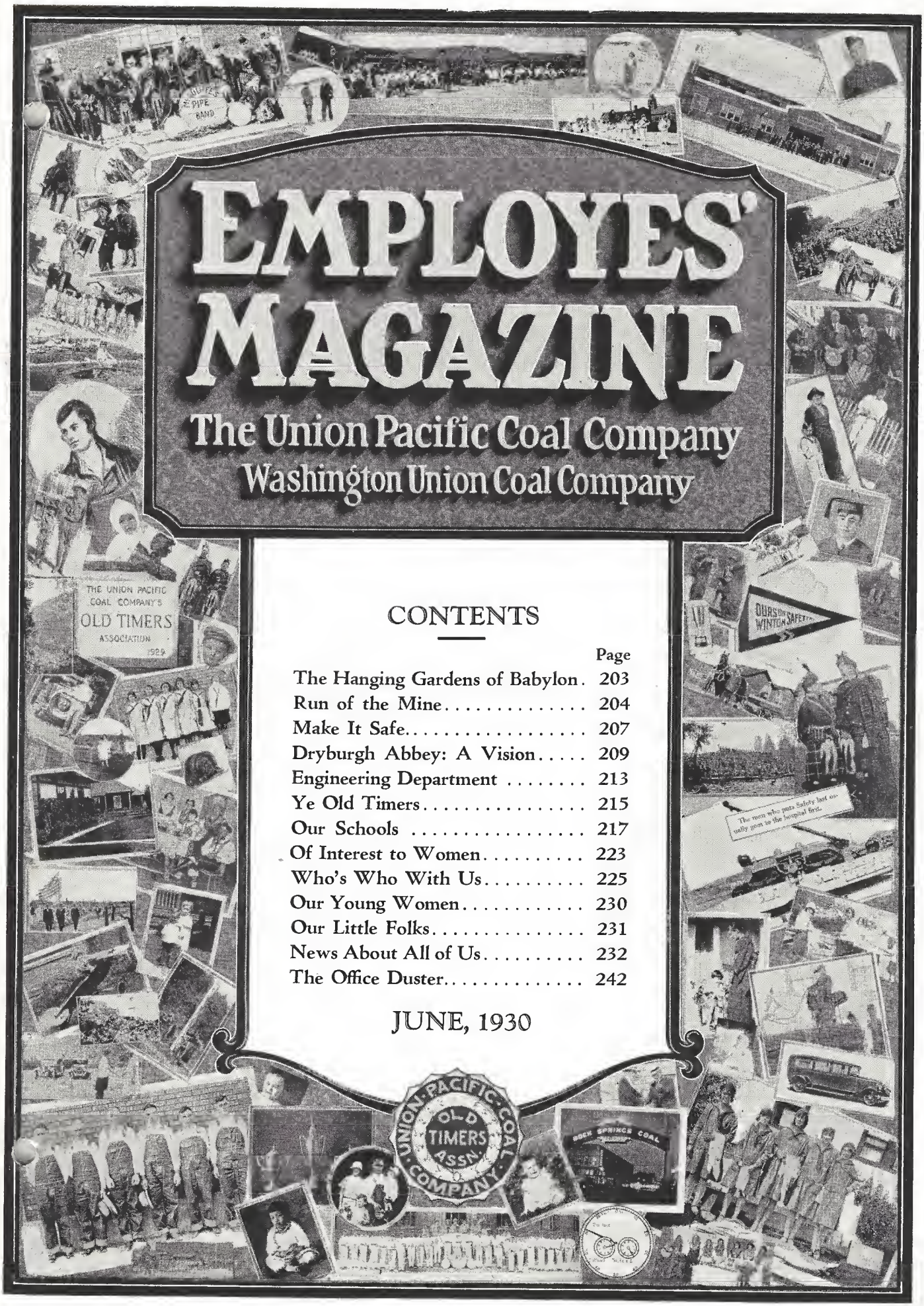

EMPLOYES' MAGAZINE

The Union Pacific Coal Company
Washington Union Coal Company

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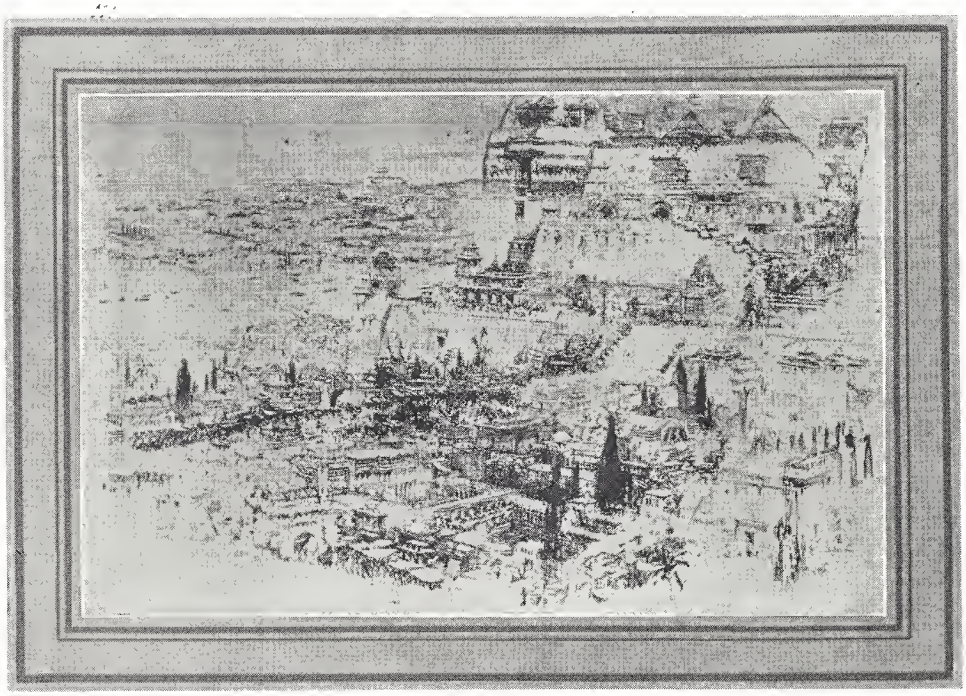
JUNE, 1930



A Turneresque conception of what the Great City of Babylon was like in the day of its glory.

It is, of course, frankly imaginative, designed to give a mental picture of Babylon as it once appeared rather than to give an accurate reconstruction.

EMPLOYES' MAGAZINE

THE UNION PACIFIC COAL COMPANY

WASHINGTON UNION COAL COMPANY

VOLUME 7 | JUNE, 1930 | NUMBER 6

The Hanging Gardens of Babylon

By ADDIE COFFMAN

Head of English Department, Superior High School

IN ORDER to fully appreciate the beauty and wonder of the renowned Hanging Gardens, it is necessary to understand something of both their history and setting.

Babylonia, in Western Asia, was one of the great kingdoms of the earth. It is mentioned in the book of Genesis and is called "the land of Shinar." From the same source we learn that Nineveh, the chief city of Assyria, was for a long time a dependency of Babylonia. In the ninth century B. C., however, Assyria became independent and Babylonia was absorbed by this empire. About three centuries later the Babylonians, freedom-loving and rebellious, allied themselves with the Medes and utterly destroyed Nineveh.

With this destruction began the second empire of Babylonia, that of Nebuchadnezzar—and during his reign were built the famous Hanging Gardens. These, spectacular and magnificent, were built by the ruler for his Median queen, Amuhia, who murmured at the flat bareness of the Babylonian plains and sighed for the beauties of the East.

According to an old Greek story the gardens were built by a beautiful and voluptuous Assyrian queen Semiramis, who is proclaimed by tradition as the founder of both Nineveh and Babylon.

On coming to the throne, Nebuchadnezzar planned to rebuild Babylon in beauty and splendor, outdoing even the vast and wonderful Nineveh. From that city he brought as slaves the master craftsmen whose works amazed all who saw them.

According to the famous Greek historian, Herodotus (who wrote in the fifth century, B. C.), Babylon was built in the form of a square with the swift, broad expanse of the Euphrates river flowing through it. Each side of the square was fifteen miles long, and the entire city was surrounded by a wall 350 feet thick, often classed as one of the Seven Wonders of the World. These walls were said to contain "a hundred gates, all of brass, with brazen lintels and side posts." Recently, several long inscriptions have been found in the Babylon mounds. In one of them Nebuchadnezzar says: "At the entrance of the great gates I erected strong bulls of bronze and terrible serpents standing upright. With mortar and bricks, he (my father) built two moat-walls about the city and I built a third moat-wall and joined it and united it closely with the moat-walls of my father. I laid its foundation deep to the water level; I raised its summit mountain high."

Within that wall one can only imagine the marvels. Babylon was not a trading city of narrow dark streets and gloomy houses; it was not a humming sea-port with ill-smelling and unsightly wharves; it was a city of temples, palaces, stately halls, marvelous parks. Its wide expanse enclosed vast hunting grounds. It was a city of "wild extravagance and wicked luxury," the pride of a proud, conquering race.

Of all the wonders of the building art as exhibited in ancient Babylon, there was none to rival the Hanging Gardens. The frame work was of stone, which alone is remarkable. At that time, hewn stone was such a rarity that one writer (Professor Myers) has said that "a stone door socket was a rich gift of a king to his god, and was rescued from one ruin after another to be proudly re-used and proudly re-dedicated." In the light of this fact, one can only guess from what source and at what cost all the stone necessary for the Gardens was secured. It must have required endless chains of slaves, working endless hours.

In grandeur and immensity the Gardens had only one or two equals—the king's colossal palace or the temple of the god Bel Marduk. But in grace, charm, and beauty, they had no equal.

The term "hanging" is somewhat misleading, as

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Articles of interest to our readers, photographs and sketches suitable for reproduction, are solicited and should be addressed to Editor, Employes' Magazine, Union Pacific Coal Company, Rock Springs, Wyoming.

Jessie McDiarmid, Editor.

a description of the gardens. In reality they were balconies raised one above the other. They made up a series of wide terraces, which, supported by arches, formed a huge stairway, 350 feet high. Each terrace contained a deep layer of mould where flowers, shrubs, plants and even fruit trees were grown. The gardens were irrigated by means of hydraulic pumps which raised the water from the Euphrates.

A broad flight of stone steps ascended from each terrace to the one above. What a glamorous picture it must have been—the high terraces the arches covered with the rarest and most exotic flowers of Asia, the cool, perfume-laden breeze, the flaming colors of the Median queen's robes as she held Court! Truly the picture is a splendid one and intrigues the imagination. Such a contrast with the flat plains of Babylon, scorched under the cruel sun of summer, justifies calling the Gardens a "Wonder."

Recent excavations of the ruins of Babylon show parts of the palace of Nebuchadnezzar and about seven of the arches of the Hanging Gardens. The most amazing discovery of all, however, is that of a well, so constructed that authorities agree that a hydraulic machine, such as a chain pump, was used in it. This doubtless provided the continuous flow of water necessary to help the Gardens growing.

As we picture in imagination this accomplishment of a great monarch, we can only sigh, that such beauty and splendor no longer exist for man's enjoyment.

Run of the Mine

1930 Fatalities

IT IS too early in the year to venture to say that our accident situation has improved, but it is especially gratifying to be able to say, as this item is being written, that but one fatal accident has occurred in and around our mines so far during the calendar year, more so that seven fatalities were suffered in a total of five mines between February 14th and May 9th, 1929.

Mining coal is a definitely hazardous occupation and what we are pleased to term luck or chance is a factor that cannot be entirely ignored, but the fact remains that eternal vigilance coupled with right living and sound thinking, will keep down both fatal and non-fatal accidents. We trust that 1930 will prove the beginning of a new dispensation.

The Passing of Cumberland

THE last of the Cumberland Mines, original Mine No. 1, will hoist its last trip of coal on June 19, 1930. On Saturday, June 21st, following, a farewell celebration will be held under the auspices of Cumberland Community Council, commencing at 10 A. M. The Committee in charge of the celebration plan to make the farewell party a memorable one.

During the forenoon a series of short addresses touching on the old days will be delivered. In the afternoon a base-ball game, horse-shoe pitching contests, and other similar activities will be carried on, and in the evening an old time dance will close the day's entertainment. Throughout the day the famous silver tongued band of Cumberland will play as few bands can play, and a barbecue coupled with food prepared by the good housewives of Cumberland will prevent one and all from going hungry.

Cumberland No. 1 Mine was opened in 1900, shipping but 33 tons of coal in that year. Later Mines No. 2, No. 3 and No. 2 South were developed, and it remained for No. 1 Mine, that produced the first car of coal, to furnish the closing chapter in the life of a district which lived for thirty years, only to pass out because of the exhaustion of economically workable coal reserves. Cumberland's destiny was not unlike that of Carbon, opened in 1868; Almy in 1869; Grass Creek in 1881; Twin Creeks in 1882; Pleasant Valley in 1883; Dana in 1889; and Spring Valley in 1899. Spring Valley, the last District to go out, closed in 1905, its location like that of Twin Creeks, which closed in 1885, not many miles from Cumberland. During the life of Cumberland, the production rose to 1,157,224 tons in 1905, with 1,068,468 in 1906, thereafter gradually shrinking; the total output up to April 30, 1930, was 14,145,460 tons. It is the wish of the Community Council and the people of Cumberland, that as many as possible, who have in past years been identified with Cumberland, join them in their farewell party, rendering adequate honor to a little town that has done its full part in the making of Wyoming, a town that will live long in the memories of those who worked and lived therein.

Further Progress in Mechanical Loading

THE American Mining Congress held its Seventh Annual Convention of Practical Coal Operating Men and National Exposition of Mining Equipment in Cincinnati, May 5th to 9th. The meeting, with the largest attendance of mining men

yet attained during the seven years, was a marked success, both as expressed in the character of the machinery exhibit and the fine papers presented for discussion.

One Indiana operator, whose mine is fully mechanized, sent his entire force, with the exception of two pump men, over to see the exhibit, and nearly every mining company of consequence in the country had one or more men in attendance.

The volume and per cent of coal loaded mechanically again shows a marked increase during the year 1929 as shown by advance figures submitted by the U. S. Bureau of Mines. The increase for the year 1929 was 16,295,000 tons, or 75.6 per cent. The growth of mechanical loading, 1923 to 1929, is shown below:

Year	Tons	Ratio
1923	1,880,000	100 per cent
1924	3,496,000	186 per cent
1925	6,148,000	327 per cent
1926	10,022,000	533 per cent
1927	14,559,000	773 per cent
1928	21,559,000	1,146 per cent
1929	37,854,000	2,013 per cent

Of the 37,854,000 tons of bituminous coal, 19,483,000 tons were loaded by machines without the use of hand shovels except for incidental clean-up. By far the largest part was contributed by mobile loading machines which handled 16,613,000 tons. Another million and a half tons were loaded by scrapers, and 1,321,000 tons were loaded by shaking conveyors equipped with "duckbills" and other self-loading conveyors. The figure for "duckbills" will probably be increased by late returns.

The tons loaded by the various types of equipment were as follows:

	Net tons	Percent
Mobile loading machines....	16,613,000	43.9
Scrapers	1,549,000	4.1
Pit-car loaders	14,786,000	39.0
Conveyors, including "duckbills"	4,906,000	13.0
Grand total, mechanized mining	37,854,000	100%

These figures represent only one phase of the process of substituting machinery for hand labor. In this connection it should be remembered that 22,000,000 tons of bituminous coal are now loaded by power shovels in strip pits, that three-fourths of the output is now undercut by machine, and that electric locomotives have been introduced in mines producing 87 per cent of the country's supply.

Can They Afford It?

MR. GEORGE B. WILSON, Political Secretary of the United Kingdom Alliance, in his annual analysis of Great Britain's drink bill for the year 1929, states that the consumption of their expenditure made for alcoholic liquors was maintained by British drinkers in 1929, while the consumption of wine increased 7 per cent over the 1928 figure. The total amount spent on alcoholic liquors in the year 1929 was $1,397,792,000, or nearly $46.00 for every one of the 30,500,000 persons of 18 years of age and upward. Eliminating the total abstainers and a large number of women who do not drink at all, it is estimated that the drink bill per individual heavy drinker in Great Britain is $242.00 annually.

As bad as this situation seems to be, a measure of comfort can be gained from the fact that the total consumption of absolute alcohol in 1929 was approximately 50,500,000 gallons as compared with 84,500,000 gallons consumed in 1913, a decline of approximately 40 per cent.

Mother Jones, Age 100

MRS. MARY JONES, known as "Mother" Jones, the militant labor leader, celebrated her one hundredth birthday in a cottage near Washington, D. C., May 1st last.

Mr. John D. Rockefeller, Jr., sent "Mother" Jones the following telegram:

> "Please accept my heartiest congratulations on your 100th birthday anniversary. Your loyalty to your ideals, your fearless adherence to your duty as you have seen it is an inspiration to all who have known you. May you have continued health and happiness as long as life lasts."

"Mother" Jones's reply read:

> "Your good wishes and hopes for continued long life on my 100th birthday was a happy surprise and among those messages most appreciated by me. Knowing all the responsibilities on your shoulders, it was a humane act to think kindly of me at this time and your message was the expression of a Christian heart."

"Mother" Jones's life has been a stormy one, to fight her way through life has been her chief joy and now with "death just 'round the bend," she displays the motherly kindliness that has been the charm and benediction of womanhood in all ages.

To Our Cumberland Employes

WITH the closing of the last of our Cumberland Mines, June 19th, The Union Pacific Coal Company, pursuant to its established policy, will find employment for all Cumberland employes who are desirous of obtaining transfers to our mines located in the Rock Springs District, including Rock Springs, Reliance, Winton and Superior.

Applications for transfer to take effect after the closing of the Cumberland District should be filed with Superintendent E. G. Blacker at Cumberland, who will transmit same to the office of the Assistant General Manager at Rock Springs for further handling.

Scotch Miner Quits Cottage For Big Palace

FOR THE second time Mr. and Mrs. James Brown, a modest Scotch couple, who have been paying less than a dollar a week for their cottage at Ayrshire for 35 years, on May 19th took over the great Holy Rood palace in Edinburgh where, for a fortnight, Mr. Brown will be the direct representative of King George.

Nominally a coal miner, Mr. Brown will for two weeks be Lord High Commissioner of the Church of Scotland, the position held last year by the Duke of York. He will sit on a throne, hold levees, receive a 21 gun salute, move about in the state coach, and to all intents will be a king holding court at Holy Rood.

Mr. Brown arrived at the palace wearing a stovepipe hat, but otherwise plainly dressed. Mrs. Brown was dressed entirely in brown, and carried a voluminous bag and an equally voluminous umbrella. But Cinderella-like gowns awaited Mrs. Brown at the palace, and she and her husband will be dressed in gorgeous costumes during the whirl of society events of the coming ten days. The Browns are teetotallers, and refuse to serve anything stronger than lemonade and ginger ale at state functions.

The American Flag

We have so many other "days" of remembering and tribute that it is surely fitting to have a "Flag Day"—June 14th—when we recall the history of the American Flag, the nationhood and freedom of which it is our symbol and the respect we, as individuals owe to it. Here are some guides prepared by a noted educator:

The American flag is the symbol of the brotherhood of man; it stands for courage, for chivalry, for generosity and honor.

No hand must touch it roughly; no hand shall touch it irreverently; it is a birthright of privilege and integrity.

It must be raised at sunrise; lowered at sunset.

It may not be used as staff, or whip, or covering. Its position is aloft.

It shall not be marred by advertisement.

When the National Colors are passing on parade or in review, the spectator should, if walking, halt, and, if sitting, arise, stand at attention, and uncover.

When displayed with other flags the National Flag should be placed on the right.

It has floated since June 14th, 1777, over a country of benevolence, refuge and progress.

To bear the Star Spangled Banner is an honor, to own one a sacred trust.

It is the emblem of Freedom, of Equality, of Justice for every person and creature as it floats unvanquished—untarnished over the open door of free education.

The Diary of a Clodhopper

Rooster woke me up at the crack of dawn
Warnt long 'fore I had my britches on
My brogans too and my ole wool hat
My hickory shirt whuts left of that
Milked four cows, throwed down some hay
Slopped ten hawgs, fed the bay
Chopped some stove wood, gethered some greens
Drink a pot of cawfee, et pone and beans
Et a stack of cakes and sow belly
Some salt rising bread and apple jelly
Then hitched old Beck to the shovel plow
Hopped the clods and sweated my brow
Sun started hot and got hottern hell
But I hopped them clods till the dinner bell
Drunk bean soup and more cawn pone
Et spoon vittles, couldn't let hit alone
Drunk potlicker, et side of middlin
Got so full, felt kind of piddlin
But I rohbed the bees, got a panful honey
Hunted for hen aigs for to git some money
Mended a rocking chair, doctored a mare
Fixed the ash hopper, cut my own hair
Set a trotline for to git catfeesh
Built a dawg house, cemented a dish
Put a feesh baskit in the river
Mended the injine in the damned ole flivver
Taken the aigs and went to town
Gasoline was up and aigs was down
Got back home, sewed on a crupper,
Chopped more wood till time for supper
Et biled rice, drunk buttermilk
Et succotash, felt fine as silk
Sun went down, up come the moon
Called the dawgs to hunt me a coon
Not right season for old coons yet
But I wanted a young un to raise a pet
On the way home went up the holler
To git me a pint for half a dollar
Taken a dram, read a book or two
Gittin' awful tard of nothing to do.

—From Service Bulletin, the Middle West Coal Company of Cincinnati.

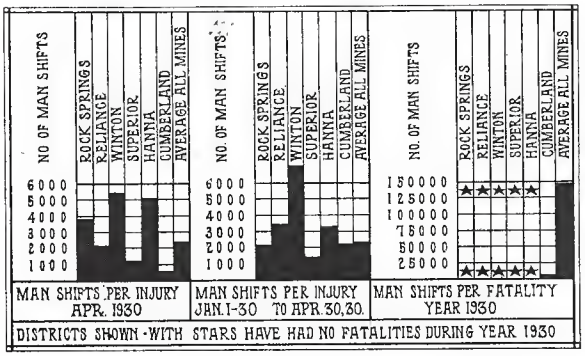
DAD KNEW

"Dad, who was Shylock?"

"Goodness, boy! You attend the finest school in this town and don't know who Shylock was! Son, you go and read your Bible!"

Make It Safe

April Accident Graph



	Man-shifts	*Injuries*	*Man-shifts Per Injury*
Rock Springs	11,400	3	3,800
Reliance	4,337	2	2,168
Winton	5,400	1	5,400
Superior	8,258	7	1,218
Hanna	5,033	1	5,033
Cumberland	619	1	619
Total All Mines..	35,317	15	2,354
PERIOD JANUARY 1, 1930 TO MAY 1, 1930			
Rock Springs	45,043	21	2,145
Reliance	17,215	5	3,443
Winton	21,161	3	7,054
Superior	35,106	25	1,404
Hanna	19,982	6	3,330
Cumberland	8,834	4	2,208
Total All Mines..	147,341	64	2,302

The month of April passed with none of the six districts reporting a fatality or serious injury. They are to be congratulated on the efforts they are putting forth and the co-operation they have given the safety department the past six weeks. While none of the mines reported "no injuries," for the month, Winton, Hanna, and Cumberland reported only 1 each with Reliance 2, and Rock Springs, 3.

The Rock Springs Mines have shown a marked improvement during the past months, from an accident viewpoint and it is the sincere wish of the Safety Department that the good work be kept up.

Superior Mines reported the largest number of accidents for the month, having a total of 7 compensable accidents.

In glancing over the month's list of accidents one notices the scarcity of injuries due to falls of roof and coal.

Such a month as this shows some of the possibilities of what can be accomplished if you work for one thing and that to prevent accidents.

First Aid Contest

The Inter-Company First Aid Contest this year promises to be a very interesting affair with the announcement, that our friends of the Washington Union Coal Co., from Tono, are going to be with us; and are coming here with the express intention of taking back to Tono the Challenge Cup, that Hanna won from them last year.

The members of the team, Messrs. David Gilfillan, Captain, Bert Peterson, Joe Mossup, Fred Pontin, James Corcoran, and Jack Dowell, Patient, the one new member of the team, have been doing a lot of practicing for the contest.

Mr. John G. Schoning, Senior Foreman Miner, Northwest Experimental Station, U. S. Bureau of Mines, Seattle, Washington; has been training the Tono team, and from past experience with Mr. Schoning's training and handling of teams, we know they are always among the winners.

MAKE IT SAFE

Program for First Aid Field Day --- Friday, June 13, 1930

9:00 A. M.—All contesting teams, Men's Teams, Girl and Boy Scouts First Aid Teams, will meet at First Aid Hall, South Main Street, Rock Springs. Led by one of the bands, the parade will form and march from the First Aid Hall to the Old Timers' Building.

9:30 A. M.—Flag raising ceremony by Boy and Girl Scouts.

10:00 A. M.—First Aid Contest for Boy and Girl Scouts.

12:00—Noon.

2:00 P. M.—Recess for lunch.

2:30 P. M.—First Aid Contest for Men's Teams.

5:30 P. M.—Banquet at Masonic Hall for Boy and Girl Scouts.

The Men's First Aid Teams are invited, and will be entertained, at the Old Timers' Banquet, Saturday, June 14th.

Prizes will be awarded winners of the Boy and Girl Scouts First Aid Contest at the banquet at the Masonic Hall, Friday, 6:00 P. M., June 13th.

Note: All contesting First Aid Teams should have their equipment and First Aid outfits at the Old Timers' Building not later than 5:00 P. M. Thursday, June 12th.

However, it is a well known fact that there are plenty of excellent first aid teams in this district, and Hanna has just notified us of their intention of winning first prize and retaining the Challenge Cup for another year. The members of their No. One Team is practically the same as last year, with Ted Attryde, Captain, Thomas Lucas, Arnum Bailie, W. E. Moffit, John Fermelia, and Chas. Mellor, Patient. The Number Two Team from Hanna promises to be a dark horse of the meet, and we are expecting to hear from them this time.

With the two above teams pitted against each other, we must not forget that Superior is entering 3 Teams and every one is expecting to get first prize. Also, there are teams from Rock Springs, Reliance, Cumberland, and Winton; and they have all told us what they are expecting to do. From the amount of training some of the teams are doing, we know they will give a good account of themselves.

Black Blasting Powder

The quantity of black blasting powder sold and used in the United States in 1928 was smaller than ever before reported. Records covering annual sales extend back to 1912, in which year 9,211,735 kegs of powder were sold. Maximum sales were reported for 1917, when the quantity sold amounted to 11,084,741 kegs. In 1921 only, 6,400,850 kegs of powder were sold and although two years later sales increased to 8,018,053 kegs a decline set in thereafter until 1927 when the amount sold was 5,267,848 kegs. There was a further decline in 1928 when the quantity sold was 4,870,335.

Regardless of the amount of black blasting powder sold from year to year, the bulk of the total quantity sold is always for use in coal-mining operations. In 1928, the year covered by this publication, the consumption of black powder amounted to 54 per cent of all explosives used at coal mines, 11 per cent being used at anthracite mines, and 66 per cent at bituminous mines. The normal consumption of black blasting powder by the coal-mining industry approximates 200,000,000 pounds, averaging about a million pounds for each day that the mines are in operation. For every 3 tons of coal produced, 1 pound of explosives is used.

Black blasting powder constituted 66 per cent of all explosives used at bituminous coal mines in 1928 and 25 per cent of all explosives used in anthracite mines. The use of this type of explosive in bituminous coal mines is particularly inadvisable, because the long, slow, and hot flame, following the firing or blasting of the shots, may ignite gas or coal dust present near the point of blasting. There is no assurance that such gas or dust, particularly such gas, may not be present in any given coal mine, although the mine may never have been known to accumulate gas in explosive quantities. The Bureau of Mines use permissible explosives exclusively for rock work as well as for blasting coal and that these explosives be fired electrically. This recommendation is made in the interest of safety as it is believed that the use of none but permissible explosives characterized by a quick, short, and relatively cool flame, will not only reduce the number of gas or dust explosions in coal mines, but will, if the explosives are fired electrically and therefore at a safe distance from the face, lessen the number of accidents from premature blasts, shortened fuse, and from other causes closely identified with the use of black blasting powder.

The above taken from the recently issued Technical Paper 467 of the United States Bureau of Mines, indicates that even in this day of supposed enlightenment 66 per cent of the explosives used in our bituminous coal mines is black blasting powder.

April Injuries

KEEP YOUR NAME OFF THIS LIST

EDWIN COOK—*Driver—Superior "E" Mine*, contusion right heel. Caught heel between the drawbars on man-trip while riding to work.

ABE GANTZ—*Outside laborer—Superior*, laceration and contusion of left thumb. Man was holding rock wedge for striker, when striker missed wedge, causing injuries to laborer's left hand.

HARRY STUART—*Driver—Rock Springs No. 8 Mine*, bruised right leg. While driving, he was caught between tail chain and car, due to horse making a sudden turn, when dropping loaded cars onto parting.

MIKE POPP—*Conveyor Man—Rock Springs No. 8 Mine*, bruised left hand. Injured claims he injured hand while pulling on steel cable, which scratched his hand.

FRANK BURLICH—*Motorman—Rock Springs No. 8 Mine*, bruised right leg. Injured was pulling empty cars from parting with rope attached to locomotive when he caught leg in the rope.

THOMAS WHALEN—*Timberman—Superior "C" Mine*, fracture left forearm. Was riding down slope on a timber trip with left arm resting on top of car. Car roofed, squeezing arm between roof and car and causing fracture of left radius.

PHILIP ZAGER—*Miner—Superior "C" Mine.* injured left hand. Was taking down top coal, when a piece of coal struck left hand, injuring fourth finger.

THOMAS DURAN—*Inside laborer—Superior "C" Mine*, injured left eye. Was cleaning track on man-slope when piece of coal entered eye, causing abrasions of left cornea.

LOUIS MESKILIN—*Miner — Superior "E" Mine.* injury to abdomen. Was changing props when brake on car was released, squeezing man between prop and car.

EUGENE GEGILLION—*Miner—Superior "E" Mine*, wounds face and ear, fracture 1st metitarsus left foot. Piece of rock fell from roof which

(Continued on page 212)

Dryburgh Abbey: A Vision

THROUGH the kindness of Mr. T. S. Taliaferro, Jr., of Rock Springs, Wyoming, we are privileged to publish in this issue of the Employes' Magazine the poem bearing the above caption. From the days when the written word first came into vogue, many examples of splendid poetry as well as prose have been given to the world by men and women whose way led along other than literary lines. From necessity much that was of beauty and value has been lost, but on the other hand, many vagrant fragments of poesy and prose have survived because of the fact that the beauty, loveliness and genius expressed by the author found a definite echo in the heart of a few souls attuned to beauty and loveliness.

In transmitting a copy of the poem to the Employes' Magazine, Mr. Taliaferro writes:

> "My father (Major Thomas Seddon Taliaferro), some time prior to the Civil War, wrote in his own hand, in his scrap book, a poem, which he captioned: 'Dryburgh Abbey, A Dream'. I have searched diligently for some reference to the poet, having read biographies of Sir Walter Scott and many volumes of English poems. Withal, I have never been able to find any reference to 'Dryburgh Abbey' nor any stanza of its verse.
>
> "Some forty years ago I wrote my father asking him to make me a copy. This he did, copying the poem with a lead pencil upon some yellow sheets of straw paper. Some of the words were hard to decipher. I turned the manuscript over to a printer, feeling that the paper and the pencilled words would soon fade and certainly to me at least the poem would be lost. The copy doubtless contains some errors, some proper names misspelled, and no doubt I have made substitutions in connecting words that I could not well make out from the pencil copy."

Mr. Taliaferro expressed the opinion that the poem could be classed as a Masterpiece for three reasons:

> "First: The direct and concise language of the poet is of the first order. Frequently, in less than a line, you catch the character of the individual, which it would take pages for an ordinary writer to portray.
>
> "Second: The poetry rhyme and rhythm is equal to the best productions of our poets of the first rank.
>
> "Third: The author caught the spiritual side of the distinguished characters with an accuracy that is perfectly amazing.
>
> "Again, what linguist or character painting artist could have described Harold, James V of Scotland, and the English Lord, in so few words but with such completeness, as that expressed in the first description of Scott's characters?
>
> " 'Was it a dream?—methought the dauntless
> Harold passed me by,—
> The Proud Fitz-James with martial step, and
> dark intrepid eye;
> That Marmion's haughty crest was there, a
> mourner for his sake;
> And she, the bold, the beautiful, sweet Lady
> of the Lake.'
>
> "Again, the romantic personality of Mary, Queen of Scots, was not better portrayed by Sir Walter Scott himself in the 'Abbot' than is shown in the single verse of Swain's poem.
>
> " 'And she, on whose imperial brow a god had
> set his seal,
> The glory of whose loveliness grief might
> not all conceal;
> The loved in high and princely halls, in lone
> and lowly cots,
> Stood Mary the illustrious, yet hapless
> Queen of Scots!'
>
> "The single verse condenses and yet expands the many volumes that have been written in pure romance (according to my thought) of a bad, flighty, selfish, and pleasure loving woman. Her tomb in Westminster Abbey is scarcely so impressive as the words of this single verse."

Taking up the search where Mr. Taliaferro left off, we found the poem in an old volume, entitled "The Family Library of British Poetry, From Chaucer to the Present Time." (1350-1878.) From this old book published 50 years ago we gleaned the correct title and text, the poem as found in the book varying but slightly from the copy made by Mr. Taliaferro's father, three-fourths of a century ago. Further search revealed the author's birth, death, and occupation and we trust that many of our readers will appreciate, not only the genius, but the sheer loveliness contained in the stanzas written by a man who wrote poetry when his daily task was done, by reason of his being the possessor of a singing soul.

Dryburgh Abbey: A Vision

By CHARLES SWAIN

And Scott—That Ocean 'mid the stream of men!
That Alp, amidst all mental greatness reared!—

'Twas morn—but not the ray which falls the
summer boughs among,
When beauty walks in gladness forth, with all her
light and song;

'Twas morn—but mist and cloud hung deep upon the lonely vale,
And shadows, like the wings of death, were out upon the gale.

For He whose spirit woke the dust of nations into life,—
That o'er the waste and barren earth spread flowers and fruitage rife,—
Whose genius, like the sun, illumed the mighty realms of mind,—
Had fled forever from the fame, love, friendship of mankind!

To wear a wreath in glory wrought his spirit swept afar,
Beyond the soaring wing of thought, the light of moon or star;
To drink immortal waters, free from every taint of earth,—
To breathe before the shrine of life, the source whence worlds had birth!

There was wailing on the early breeze, and darkness in the sky,
When, with sable plume, and cloak, and pall, a funeral train swept by;
Methought—St. Mary shield us well!—that other forms moved there,
Than those of mortal brotherhood,—the noble, young and fair!

Was it a dream? How oft in sleep we ask, "Can this be true?"
Whilst warm imagination paints her marvels to our view;—
Earth's glory seems a tarnished crown to that which we behold,
When dreams enchant our sight with things whose meanest garb is gold!

Was it a dream?—methought the dauntless Harold passed me by,—
The proud Fitz-James with martial step, and dark intrepid eye;
That Marmion's haughty crest was there, a mourner for his sake;
And she, the bold, the beautiful, sweet Lady of the Lake.

The Minstrel whose "last lay" was o'er, whose broken harp lay low,
And with him glorious Waverley, with glance and step of woe;
And Stuart's voice rose there, as when, midst fate's disastrous war,
He led the wild, ambitious, proud, and brave Ich Ian Vohr.

Next, marvelling at his sable suit, the dominie stalked past,
With Bertram, Julia by his side, whose tears were flowing fast;
Guy Mannering too moved there, o'erpowered by that afflicting sight;
And Merrilies, as when she wept on Ellangowan's height.

Solemn and grave, Monkbarns approached amidst that burial line;
And Ochiltree leant o'er his staff, and mourned for "Auld lang syne!"
Slow marched the gallant McIntyre, whilst Lovell mused alone;
For once Miss Wardour's image left that bosom's faithful throne!

With coronach, and arms reversed, forth came MacGregor's clan,—
Red Dougal's cry pealed shrill and wild,—Rob Roy's bold brow looked wan:
The fair Diana kissed her cross, and blessed its sainted ray;
And "Wae is me," the Baillie sighed, "that I should see this day!"

Next rode, in melancholy guise, with sombre vest and scarf,
Sir Edward, Laird of Ellieslaw, the far-renowned Black Dwarf;
Upon his left, in bonnet blue, and white locks flowing free,—
The pious sculptor of the grave,—stood Old Mortality!

Balfour of Burley, Claverhouse, the Lord of Evandale,
And stately Lady Margaret, whose woe might naught avail!
Fierce Bothwell on his charger black, as from the conflict won;
And pale Habakkuk Mucklewrath, who cried "God's will be done!"

And like a rose, a young white rose, that blooms mid wildest scenes,
Pass'd she—the modest, eloquent, and virtuous Jeanie Deans;
And Dumbiedikes, that silent laird, with love too deep to smile,
And Effie with her noble friend, the good Duke of Argyle.

With lofty brow, and bearing high, dark Ravenswood advanced,
Who on the false Lord Keeper's mien with eye indignant glanced;—
Whilst graceful as a lovely fawn, 'neath covert close and sure,
Approached the beauty of all hearts,—the Bride of Lammermoor!

Then Annot Lyle, the fairy queen of light and song, stepped near,
The Knight of Ardenvohr, and He, the gifted Hieland Seer;

Dalgetty, Duncan, Lord Monteith, and Ranald met my view,
The hapless Children of the Mist, and bold Mhich-Connel-Dhu!

On swept Bois-Guilbert, — Front-de-Boeuf, — De Bracy's plume of woe;
And Coeur-de-lion's crest shone near the valiant Ivanhoe;
While soft as glides a summer cloud Rowena closer drew,
With beautiful Rebecca,—peerless daughter of the Jew!

I saw the courtly Euphuist, with Halbert of the Dell,
And, like a ray of moonlight, passed the White Maid of Avenel;
Lord Morton, Douglas, Bolton, and the Royal Earl marched there,
To the slow and solemn funeral chant of the Monks of Kennaquhair.

And she, on whose imperial brow a god had set his seal,
The glory of whose loveliness grief might not all conceal;
The loved in high and princely halls, in lone and lowly cots,
Stood Mary the illustrious, yet hapless Queen of Scots!

The firm, devoted Catherine, the sentimental Graeme,
Lochleven, whose worn brow revealed an early blighted name;
The enthusiastic Magdalen, the pilgrim of that shrine,
Whose spirit triumps o'er the tomb, and makes its dust divine.

With Leicester, Lord of Kenilworth, in mournful robes was seen
The gifted, great Elizabeth, high England's matchless queen.
Tressilian's wild and manly glance, and Varney's darker gaze,
Sought Amy Robsart's brilliant form, too fair for earthly praise.

Next Norna of the fitful-head, the wild Reimkennar, came,
But shivered lay her magic wand, and dim her eye of flame;
Young Minna Troil the lofty-soul'd, whom Cleaveland's love betrayed,
The generous old Udaller, and Mordaunt's sweet island maid.

Slow followed Lord Glenvarloch, first of Scotia's gallant names;
With the fair, romantic Margaret, and the erudite King James;
The wooed and wronged Hermione, whose lord all hearts despise,
Sarcastic Malagrowther and the faithful Moniplies.

Then stout Sir Geoffrey of the Peak, and Peveril swept near;
Stern Bridgenorth, and the fiery Duke, with knight and cavalier;
The fairest of fantastic elves, Fenella, glided on;
And Alice, from whose beauteous lip the light of joy was gone.

And Quentin's haughty helm flashed there; Le Balafre's stout lance;
Orleans; Crevecoeur; the brave Dunois, the noblest knights of France;
The wild Hayraddin, followed by the silent Jean de Troyes,
The mournful Lady Hameline, and Isabelle de Croyes.

Pale sorrow marked young Tyrrell's mien; grief dimmed sweet Clara's eye;
And Ronan's Laird breathed many a prayer for days and friends gone by!
"O, mourn not!" pious Cargill cried; "should his death woe impart,
Whose cenotaph's the universe, whose elegy's the heart?"

Forth bore the noble Fairford his fascinating bride,
The lovely Lilias, with the brave Redgauntlet by her side;
Black Campbell, and the bold redoubted Maxwell met my view;
And Wandering Willie's solemn wreath of dark funereal yew!

As foes who meet upon some wild, some far and foreign shore,
Wrecked by the same tempestuous surge, recall past feuds no more;
Thus prince and peasant, peer and slave,—thus friend and foe combine
To pour the homage of their heart upon one common shrine!

There Lacey, famed Cadwallon, and the fierce Gwenwyn marched on;
Whilst horn and halbert, pike and bow, dart, glaive, and javelin shone;
Sir Damian, and the elegant young Eveline passed there,
Stout Wilkin, and the hopeless Rose, with wild, dishevelled hair.

Around, in solemn grandeur, swept the banners of the brave,
And deep and far the clarions waked the wild dirge of the grave;
On came the Champion of the Cross, and near him, like a star,

The regal Berengaria, beauteous daughter of Navarre:

The high, heroic Saladin, with proud and princely mien,
The rich and gorgeous Saracen, and the fiery Nazarene;
There Edith and her Nubian Slave breathed many a thought divine,
Whilst rank on rank—a glorious train—rode the Knights of Palestine!

Straight followed Zerubbabel and Joliffe of the tower,
Young Wildrake, Markham, Hazeldine, and the forest nymph Mayflower;
The democratic Cromwell, stern, resolute, and free;
The night of Woodstock, and the light and lovely Alice Lee.

And there the crafty Proudfute for once true sorrow felt;
Craigdallie, Chartres, and the recreant Conachar the Celt;
And he, whose chivalry had graced a more exalted birth,
The noble-minded Henry, and the famed fair Maid of Perth.

The intrepid Anne of Geierstein, the false Lorraine stepped near;
Proud Margaret of Anjou, and the faithful, brave De Vere;
There Arnold, and the King Rene, and Charles the Bold, had met
The dauntless Donner Lugel and the graceful young Lizette.

Forth rode the glorious Godfrey, by the gallant Hugh the Great,
While wept the brave and beautiful their noble minstrel's fate:
Then Hereward the Varangian, with Bertha at his side,
The valorous Count of Paris, and his Amazonian bride.

And last, amidst that princely train, waved high De Walton's plume,
Near fair Augusta's laurel wreath, which time shall ne'er consume;
And Anthony, with quiver void, his last fleet arrow sped,
Leant, mourning o'er his broken bow, and mused upon the dead!

Still onward, like the gathering night, went forth that funeral train,—
Like billows when the tempest sweeps across the shadowy main;—
Where'er the eager gaze might reach, in noble ranks were seen
Dark plume, and glittering mail and crest, and woman's beauteous mien!

A sound thrilled through that lengthened host! methought the vault was closed,
Where in his glory and renown fair Scotia's bard reposed!—
A sound thrilled through that lengthened host!—and forth my vision fled!—
But ah!—that mournful dream proved true,—the immortal Scott was dead!

The vision and the voice are o'er! their influence waned away
Like music o'er a summer lake at the golden close of day;
The vision and the voice are o'er,—but when will be forgot
The buried Genius of Romance,—the imperishable Scott!

April Injuries

(Continued from page 208)

rolled and struck miner, causing above injuries.

SAM HIRATA—*Miner—Reliance No. 1 Mine*, sprained shoulder. Injured was lifting rail into car, when he sprained his shoulder.

FELIX ANSELMI—*Tipple man—Reliance*, fractured left ankle. The eye bolt on car retarder was broken allowing retarder rope to fall on car tracks. This allowed cars to start running away and while Anselmi was climbing on car to set the brake, his left ankle was struck by the wire rope causing the above injury.

DAS MORRISON—*Tippleman*—Winton, contusion back of left hand. Injured was trimming a car of coal when a lump of coal fell from the loading boom; injuring left hand.

CHAS. DRAGON—*Miner—Cumberland*, sprained wrist. Was drilling a hole in top coal, when ladder slipped causing injured to fall and sprain wrist.

CHAS. A. MELLOR—*Driver—Hanna No. 9 Mine*, laceration of ankle. Injured was riding front end of car when car jumped tracks; causing injured to get ankle squeezed between rails and car bumper.

HE WAS PROTECTED

"Are you the plumber?" asked the lady of the house.

"Yes, Ma'am, I'm the plumber all right."

"Well," she replied, "I just wanted to caution you to exercise care when doing your work. All my floors are highly polished and in perfect condition."

"Oh, don't worry about me slipping, lady; I've got nails in my shoes."

Engineering Department

A Brief Sketch of the Development of the Modern Surveying Instruments

By C. E. SWANN

IN TWO PARTS—PART ONE

DR. WILLIAM BOWIE, U. S. Coast and Geodetic Survey, writes in the Scientific Monthly: "A short time ago my attention was called to a very interesting book, entitled 'Geodeasia or the Art of Surveying and Measuring of Land Made Easie' by John Love, printed in London in 1688. The author in the first sentence of his "Preface to the Reader" asks, 'What would be more ridiculous, than for me to go about to praise an Art that all Mankind knows they can not live Peaceably without?"

He then shows how surveying originated in Egypt where it was necessary to recover boundary marks of private property after overflows of the Nile which covered with mud the indications of the division of private property. From Egypt the art of surveying was taken into Greece and, no doubt, from that country was carried all around the Mediterranean region. The last part of Love's preface is of particular interest and significance as it indicates the degree of accuracy then found necessary for practical purposes. The author of the book says:

"I have taken example from Mr. Holwell to make the Table of Sines and Tangents, but to every Fifth minute, that being nigh enough in all sense and reason for the Surveyor's Use: for there is no Man, with the best instrument that was ever yet made, can take an angle in the Field nigher, if so nigh, as to Five Minutes."

It seems incredible that the surveying art had not progressed beyond the ability of an engineer to measure an angle in the field, with an accuracy greater than five minutes less than 250 years ago. Today we have direction theodolites, read by micrometer microscopes to single seconds, which give closing errors of triangles in first-order triangulation averaging about one second; the probable error of a direction resulting from the adjustment of an arc of triangulation of first order is seldom greater than one-half second. With our present day good mining transits we can read directly to twenty seconds of angle and by carefully taking the same angle several times and using the average angle, we obtain a much closer angle. In making surveys for underground connections where the survey is of considerable length the degree of accuracy specified by Mr. Love would be totally inadequate in the results obtained in that many places connected must be practically in a straight line for rope haulage which would be impossible using Mr. Love's allowable error.

The development of surveying instruments has really been the outgrowth of the astronomer's efforts to locate accurately objects at great distances apart. They desired to make observations on the sun, moon, planets and their satellites, and on the stars, and in order that the work might be done with satisfactory accuracy, they paid much attention to the development of the telescope.

TELESCOPE

Knowledge of the telescope prior to 1600 is sometimes credited to Roger Bacon, Giambattista della Porta and others "but it is quite certain that previous to 1600 the telescope was unknown, except possibly to individuals who failed to see its practical importance, and who confined its use to 'curious practices or to demonstrations of natural magic'." The practical discovery of the instrument was certainly made in Holland about 1608, but the credit of the original invention has been claimed on behalf of three individuals, Hans Leppershey and Zacharias Jansen, spectacle-makers in Middleburg, and James Metins of Alkmaar (brother of Adrian Metins the mathematician).

According to records found in the government archives at the Hague, Van Swinden found very conclusive evidence that Hans Lippershey, a spectacle maker, was the first person who independently invented the telescope. The common story is that Lippershey, happening one day, whilst holding a spectacle lens in either hand, to direct them towards the steeple of a neighbouring church was astonished, on looking through the nearer lens to find that the weathercock appeared nearer and more distinct. He fitted the lenses in a tube in order to adjust and preserve their relative distances and thus constructed his first telescope. But doubt may be thrown on this traditional account owing to the further statement that the image of the weathercock so viewed was seen turned upside down. All the original Dutch telescopes were composed of a convex and a concave lens, and telescopes so constructed do not invert. The inverting telescope, composed of two convex lenses, was a later invention; still it is not impossible that the original experiment was made with two convex lenses.

The use of the telescope spread rapidly soon after its invention and manufacture in Holland. Galileo is credited with inventing the first increased power telescope and perfecting Lippershey's invention in many ways until the practical telescope in use became known as the Galilean Telescope.

Wm. Gascoigne was the first who practically appreciated the chief advantages of the double convex lense telescope suggested by Kepler, viz., the visibility of the image of a distant object simultaneously with that of a small material object placed in the common focus of the two lenses. This led to his invention of the micrometer and his application of telescopic sights to astronomical instruments of precision.

Prior to the use of the telescope, surveying instruments had pointers or sights on them somewhat like the sights used on fire arms. These necessarily were coarse and made it impossible to secure angle measurements of a high degree of accuracy. The telescope could not be used in making accurate observations, in either Astronomy or Surveying, until cross wires or lines etched on glass were used in common focus of the eyepiece and the objective. Various attempts were made to improve the telescope in order to measure diameters of small objects seen in the telescope, but it remained for the invention of the Micrometer attachment to bring into being the accuracy now enjoyed in modern astronomical and surveying instruments.

End of Part One.

Measuring Energy Without Cutting the Line

By D. C. McKEEHAN

IT WAS necessary to measure the load on a large direct-current motor and the proper instruments were not at hand. It was assumed that the load was about 100 horse-power, i.e., 400 amperes at 250 volts. The line leading to the motor was of 500,000 circular mils in area and an unwieldly size to handle. A voltmeter reading up to 300 volts and a millivoltmeter with a 100 millivolt scale were available. The millivoltmeter required one hundred thousandths of a volt, that is, one tenth of a volt to cause full scale deflection.

Direct current ammeters, to measure large currents, are provided with shunts which divert a very small percentage of the main current to flow into the instrument, however, at this particular time the proper shunt was not at hand.

The prohlem was to calculate how far apart to connect the instrument leads to the 500,000 circular mil conductor in order to determine the current; nor was it permissible to cut the conductor.

From Ohm's law we derive the loss in volts along any section of a conductor by multiplying the current in amperes by the resistance in ohms. This is commonly referred to as the IR loss, where I represents the amperes and R the resistance in ohms.

Stated another way, what length of conductor would have a loss of 1 volt when carrying 1,000 amperes? This is probably a more simple question of what is actually required in order to make a 100 millivoltmeter instrument read in amperes by applying a multiplier of 10.

Applying Ohms law,

$$I = \frac{E}{R} \text{ or } R = \frac{E}{I} \text{ or } R = \frac{.1}{1{,}000} = .0001 \text{ ohm}$$

In other words, the length of a section of the 500,000 C. M. cable having a resistance of .0001 ohm solves our problem.

Referring to the table of resistance, find that a 500,000 C. M. conductor has a resistance of .0235 ohms per 1,000 feet. The known quantities are placed in the following proportion:

.0235 (ohms per 1,000 feet of conductor) is to 1,000 amperes as .0001 (ohms for length to be determined) is to X (the unknown length of conductor)

$$.0235 : 1000 = .0001 : X$$
$$X = 4.25$$

The leads from the millivoltmeter should be connected to the conductor 4.25 feet apart.

A full scale deflection of 100 millivolts represents 1,000 amperes in the conductor and likewise a reading of 40 would be interpreted as 400 amperes. In some cases the instruments are adjusted to the drop across a portion of the copper bus-bar through which the current passes.

To compute the length of the copper bar of a given cross section to give a certain drop for a given current substitute in the following formula:

$$\text{Length in feet} = \frac{AD \times 119}{I}, \text{ where A equals}$$

area of bus-bar in square inches and D equals drop in millivolts for instruments for Current I. I equals current in amperes. The results are incorrect for large temperature variations.

Such problems as the foregoing are not unusual around large industrial plants and it is hoped that the information will be of value to those interested in the work.

The Duel Between Mr. Shott and Mr. Nott

A duel was lately fought in Texas by Alexander Shott and John S. Nott. Nott was shot, and Shott was not. In this case it is better to be Shott than Nott. There was a rumor that Nott was not shot, and Shott avows that he shot Nott, which proves either that the shot Shott shot at Nott was not shot, or that Nott was shot notwithstanding. Circumstantial evidence is not always good. It may be made to appear on trial that the shot Shott shot shot Nott, or, as accidents with firearms are frequent, it may be possible that the shot Shott shot shot Shott himself when the whole affair would resolve itself into its original elements and Shott would be shot, and Nott would not. We think, however, that the shot Shott shot shot not Shott but Nott; anyway, it is hard to tell who was shot.

Ye Old Timers

Annual Old Timers Celebration, June 14th

Flag Draped Old Timers Building Ready to Receive Largest Gathering Ever Attending the Reunion

THE sixth annual celebration of Old Timers Day comes on Saturday, June 14th, and promises to be a record-breaker in attendance as well as in fun, fancy features and frolic. There is a large increase in membership which now numbers 485. The Old Timers Building will be ready to receive and banquet everybody, and will give the welcome of aequaintance after its year of use. And the welcome of complete comfort and commodiousness. And the welcome of beautiful decorations, flags of every nation represented in the membership of the Old Timers Association—Forty in all—whose sons and daughters have brought the gifts of older lands to make the strength of America and the variety of her interests and culture. Most of all, there will be the yearly greeting of old friends and recalled experiences and shared good times.

There will be new entertainment features. Much fun is promised by the old-fashioned horse-shoe pitching tournament. Many of us have wanted to dance on the spacious floor of the Old Timers Building. There will be a Ball of Nations in the evening, with national folk dances and songs from each one of the towns from which the larger groups of Old Timers come. A Ball of Nations! In a hall draped with the flags of many nations and bright with the costumes of many nationalities. Then dancing for all—old fashioned and modern. Superintendents Tom Foster of Winton and T. H. Butler of Rock Springs have the ball in charge, and will presently announce a list of patrons and hostesses. It will be a magnificent evening with all the musicians of the district from which to draw an orchestra.

The luncheon-banquet at noon will be a renewal of former pleasant occasions with pep, song features and Rev. W. McMurdo Brown, Rector of St. Thomas, Park Hill, Denver, as chief speaker. Mr. Axel Johnson of Rock Springs will graduate into the Forty-Year class, receiving a special gold button.

Into the parade will be injected the experience and accumulated enthusiasm of other years. Field Marshall V. H. Williams will again be director and will be assisted by Engineers F. V. Hicks, H. C. Livingston and V. O. Murray. The boys and girls of the First Aid teams and the men of the First Aid Inter-Company Field Meet will also find places in the parade. And Bands! Bands in uniform! Half the town of Cumberland and a goodly portion of the other towns in carefully trained bands.

But some things must be left for surprises. And the half can't be told anyway. Here is a list of the committee members who are all working on the plans to make this coming Old Timers Day the grandest and most magnificent as well as the most cosy and friendly we've ever had:

Horseshoe Tournament—E. R. Jefferis and Hugh McLeod.

Banquet—E. R. Jefferis and T. H. Butler.

Parade—V. H. Williams, Frank Hicks, H. C. Livingston and V. O. Murray.

Music—Geo. A. Brown, I. N. Bayless.

Reception—H. J. Harrington, Thos. Foster, John McTee, Jr.

Billeting—J. L. Libby, C. E. Swann, M. W. Medill.

Decoration—D. C. McKeehan, D. Zimmermann, M. A. Sharp.

Program—J. R. Dewar, Frank Tallmire.

Dance—T. H. Butler, Thomas Foster.

Horse Shoe Pitching Tournament

One of the amusements of Old Timer's Day will be an old fashioned Horse Shoe Pitching Contest—the real thing. Special courts will be rolled and set up on the field right in front of the Old Timer's Building where Old Timer Charlie Smith himself can keep score and perhaps guide the playing of those who were his friends in the past. E. R.

SPECIAL NOTICE TO OLD TIMERS

A group photograph for the historical records of the Old Timers Association will be taken immediately after the parade. Be sure to get in it. Bring your wives and take positions on the south side of the Old Timers Building.

Jefferis and Hugh McLeod, coaches and tournament managers have announced the following prizes for men and women: For men, the First Prize will be a suit of tailored-to-measure clothes; the Second Prize will be a pair of Peter's high top boots; and the Third Prize one good fishing pole. We heard one devotee of the game say that most anybody would rather have the Third Prize at this time of year. In the women's contest the First Prize will be a twenty-seven piece set of flat silverware; the Second Prize, a handsome rayon bed spread; and the Third Prize a box containing three pairs of silk hose, any desired shade.

Rules of the tournament are announced as follows:

Only registered members of the Old Timers Association may participate.

The men will play at forty feet.

The women will play at thirty feet.

Four men and four women may compete from each town.

These contestants are to be chosen by an elimination held in each of the following towns: Reliance, Winton, Superior, Cumberland, Hanna, Rock Springs and Tono.

We learn that dozens of pitchers are already practicing in Cumberland, that Superintendent Geo. Blacker plans to carry off all three prizes. We're not so sure. We remember the threats of D. G. Jones of Hanna, who has been sighing for band prizes or more fields to conquer. Then perhaps Tono will send entrants and Tono men and women are no mean contenders for any honors. And of course the rest of us are planning more than we're saying. Sometimes the quiet folks are the most dangerous rivals. Everybody send their entries to Hugh McLeod, referee.

Hats Off to the Old Timer

(WRITTEN FOR THE 1930 OLD TIMERS' REUNION BY JUDGE D. G. THOMAS)

Of all the months, June's most fair,
With roses in her golden hair;
The magic of her fluted voice,
Makes all the world and Heaven rejoice.
But not alone because 'tis June,
Do I my lowliest lyre tune;
I venture forth to sing a lay,
In honor of Old Timers' Day.

To me the men of long ago,
With locks as white and clean as snow,
Mean much; and that is why I always strive
To meet old friends who here survive;
The smile that no one else can wear
With such becoming art, is there;
The voice, the eye, at once convey
Memories of that other day.
When youth and manhood side by side
Fronted the world with strength and pride.

Hats off! I say, to these fine men,
Whose like we'll never see again;
Hats off! and stand aside while they
Parade on this Old Timers Day.
Although their steps may seem unsteady,
Their, hearts, we know, are young and ready;
And spurred and soothed by bands that play,
By flaunting flags and banners gay,
Behold them proudly march away.

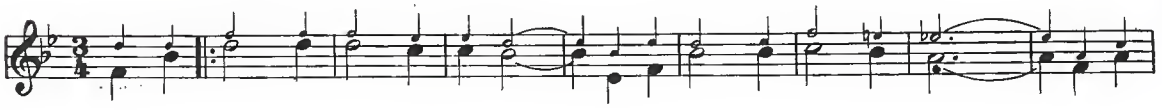
We love them—that is why we give
The sweetest flowers while they live;
And when they go their wonted way,
We'll urge them back another day,
When flags again will wave, and bands
Play merrily as we clasp hands.
And smile and sing and live once more
Among old friends and scenes of yore.

When It's June Time in Wyoming

(Sung to tune of Springtime in the Rockies)

PARODY BY D. G. THOMAS

When it's June time in Wyoming,
There is music on the air;
With a chorus of Old Timers
Who are gathered here and there.

We will strive to make them happy
While they visit us today
When it's June time in Wyoming,
We will cheer them on the way.

Our Schools

An English Exhibit at Rock Springs High School

By MARIE MCLAUGHLIN

The English department of Rock Springs High School has arranged an exhibit of its year's work. Each class has a different type of work in English to do and their exhibits show how they go about their work. Included in Freshman reading are "Silas Marner," "Treasure Island" and "The Lady of the Lake." Clever artistic specimens of Treasure Island, Ellen's Isle and of Marner's hut bring these places into actual being. These projects show that the Freshmen in addition to reading a story, use their fingers to bring their original ideas into life. Among the Freshman projects we also find miniature characters taken from the various stories and made real, miniature stockades, huts and maps. All of these are original productions and serve to create a great deal of interest in English work.

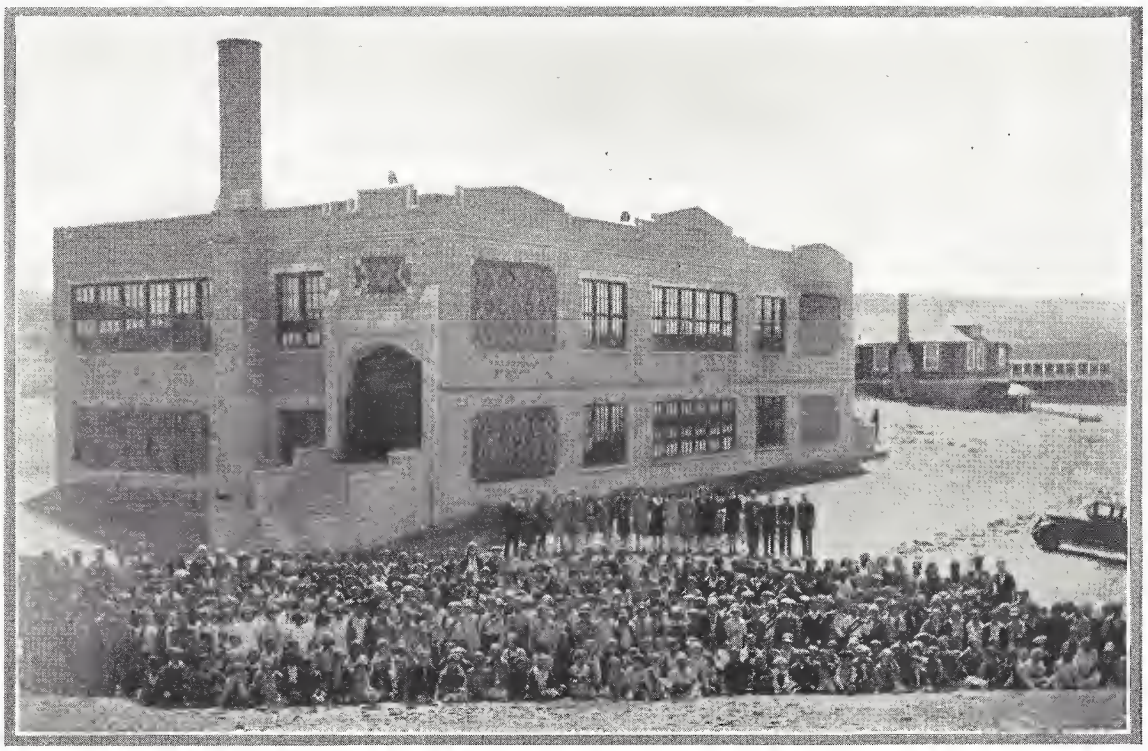
The Sophomores follow the plan of the Freshman although to a less extent. Their exhibit is produced from the reading of "Ivanhoe," "The Merchant of Venice," "Abraham Lincoln," and "Julius Caesar."

The Juniors have more notebook work to do than do the lower classmen since their work includes so much study of authors' lives and works. In addition to notebooks they have scrap books telling in picture form the story of "Macbeth," "Tale of Two Cities," and the "Idylls of the King." The Juniors also exhibit some very good original poetry.

The Seniors are limited almost entirely to notebook work in outlining the lives and works of both American and foreign authors. Their exhibit includes outlines and summaries of their various English projects.

One very outstanding project is Silas Marner's hut made by Irene McCurry. Not one phase of this hut has been omitted by this careful and diligent student. Irene has brought into reality the famous hut with its thatched roof, plain fireplace and hearth, simple furnishings, and gloomy atmosphere. Outside is the shrubbery about whieh we have read so much and off to one side we find the well which caused such interest in the story.

The famous Hispanola of "Treasure Island" can



School of District No. 7, Sweetwater County, at Reliance, Wyoming, to which High School students from Dines, Winton, Reliance and Granger Springs go. There are 19 faculty members and 450 children in the district. (Photo by courtesy of Mr. James Stroud.)

be seen on exhibit. This ship was made by Louis Allen and he also filled in every smallest detail. Mast, flag-pole, forecastle, boom, sails, keel, helm and all appear on this ship.

A Junior scrap book telling the story of "The Tale of Two Cities" in picture form. Dr. Manette, Lucy, De Farge's wine shop, the Bastile, the Guillotine and every character and location in the story is amply portrayed in this scrap book. Virginia Nelson's and Charles Blasko's English notebooks add neatness and interest to the exhibit.

Thus it is shown how the type of English work changes as the student becomes older and his interest never wanes.

Tono School Graduating Class of 1930

By HELEN LIVINGSTON—*Eighth Grade*

The boys and girls of the eighth grade are happily looking forward to the evening of May 21st when they take part in the annual graduation program. Although they hate to leave their pleasant school here they feel proud and glad at having successfully passed another milestone. With no unforeseen mishaps this year Tono will have a 100% record in eighth grade graduates for the past three years.

The class is rather small this year, consisting of only six boys and four girls who are as follows: Phyllis Monoghan, Helen Livingston, Donald Davis, Louis Flani, Elma Ring, Donald Boardman, Theresa Barrett, Byrd Friend, Barrie Gilfillan, Edward Hall.

The eighth graders will participate in the program with the following numbers; a Class History, Poem, Will, Prophecy, a talk on Freedom and Courage. The principal speaker of the evening will be William J. Coates, Labor Commissioner for the State. Music will be furnished by the Tono Music Club.

As a part of the exercises a medal will be presented to Donald Davis, by the county superintendent, for being the best grade school speaker in the county, and a new five dollar bill will be awarded to the pupil having the highest average.

The class has chosen as its class colors, orchid and yellow and their class flowers are lilacs and Scotch bloom. The four girls will wear dresses to

Tono School's Eighth Grade Graduating Class with Superintendent Oliver R. Ingersol and Instructor William Nicholson. They are, reading from left to right, upper row: Louis Flani, Helen Livingston, Byrd Friend, Theresa Barrett, Edward Hall. Bottom row, Mr. William Nicholson, Barrie Gilfillan, Elena Ring, Donald Davies, Phyllis Monoghan, Donald Boardman, Superintendent Oliver Ingersol.

School girl flowers take the place of other varieties to beautify the rocky background of the throne of Reliance May Queen.

harmonize with these colors and the hall will be beautifully decorated with the class colors and flowers.

After the graduation exercises, the graduates, their parents, and those taking part in the program will adjourn to the Club House where a banquet will be served.

Tono School's Third Annual School Extension Trip

By DONALD DAVIS—*Eighth Grade*

About June 1st the pupils of the seventh and eighth grades of the Tono School will start on their third annual educational and recreational school extension trip. An innovation from the past two trips will be the taking along of the seventh and eighth grade girls together with two or three of their mothers as chaperons.

Two years ago a trip was made through northwest Washington and southern British Columbia, and last year over the Columbia Highway, through central Oregon and back along the Pacific Ocean. This year the trip will be made North again, to Seattle, Chuckanut Drive, Bellingham, Vancouver, B. C., the famous Marine Drive, Capilano Canyon, and possibly Victoria.

It is expected that about twelve days will be used up on the trip and that the wonderful scenes witnessed and the knowledge gained will remain with the pupils the rest of their lives.

It is believed that the Tono School is the only grade school in the United States which sponsors such educational and recreational trips. It is a self-governing student experiment and all work and duties are performed by the pupils who rotate "capers." We think it is a most valuable part of our education—this trip, which forms the subject for much of our English and other work during the school year. It is a lesson in taking responsibility and in co-operative effort as well as a continuous nature study and a grand and glorious vacation.

May Queen Lois Baxter and the elves and trees of Spring who attended her.

May pole dance at Reliance High School May Day play festival.

Industrial Education

By Rock Springs High School

THE Rock Springs High School offers several courses in trade training to High School students. The purpose of these courses is to give training in trade work to students who do not intend to go to college. Originally, the High School was merely a preparatory school for college entrance. In the last decade the enrollment in High School has increased very much and a large portion of these people will be required to seek employment immediately after graduation. Hence different types of courses are offered in the modern school.

In an industrial age, any type of educational training which neglects the all important subject of making a living has not fulfilled its obligation to society. It is believed that so-called industrial subjects have a cultural value, the same as dead languages. In other words, it is more pertinent to know how a modern centrifugal pump operates than how the ancient Egyptians irrigated their lands.

If any justification for Industrial Education is necessary, it may be obtained by counting the great number of former graduates engaged in electrical and mechanical work besides others required to work in closely allied lines. There are very few concerns operating in this district that do not employ at least one of our graduates.

The Hanna High School

By AMELIA LEINO, HANNA '30

ON ENTERING Hanna one can readily distinguish the school buildings from all other structures. There are four buildings on the campus: the Main Building, the annex, the Shop or Manual Training Building, and the Gymnasium.

Properly speaking, the Hanna High School, considering it as a place of education, is nothing more or less than a place for acquiring a great deal of

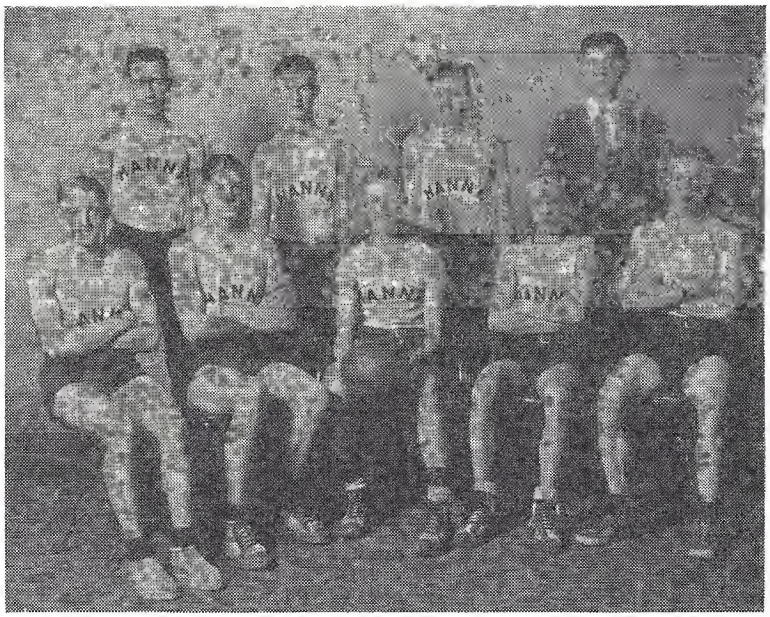
Upper left—In the Woodworking Shop boys make every kind of furniture under the direction of Mr. Carl Schwarz, Instructor.

Upper right—Students of Rock Springs High School in Machine Shop with Mr. Ivar Abrahamson, Instructor.

Lower—The Rock Springs Electrical Shop class. Mr. Charles Cameron, Instructor.

knowledge on a great many subjects. However, this is not its *only* motive. It endeavors through its course of study and organization to give the students not only a liberal but also a vocational education.

The institution is organized on the six-six plan, that is, the first six grades are in one division with the remaining six in the other. In this way the seventh and eighth grades are considered as part of the High School. The school is on the two year State accredited list. Therefore the students from Hanna School may enter the State University without further examination—our credits are accepted by the University. Plans are being made this spring for getting on the North Central accrediting list.



Hanna 1930 Basketball Team.

Under the subjects that may be listed as "liberal" are: English, Sciences, Social Sciences, Foreign Languages, and Mathematics. In English I-II-III-IV under Miss Eva Marie Behrenfeld the student acquires a great deal of knowledge on all periods of English and American Literature. The first three years of English are required or compulsory while the last year is elective.

The Sciences that are taught in the school are: General Science, Biology and Physics. Miss K. Lucille Johnston is instructor of General Science and Biology, while Mr. Glover Milam teaches Physics.

Social Sciences—Economics, Sociology, World History, and American History are taught by Miss Marian Baker. Economics and Sociology are given as one course for one credit, Economics coming the first semester and Sociology the second. One interesting phase in this course is the annual Sociology Class trip to the State Penitentiary at Rawlins. This trip climaxes the study of "Prison Reform."

Miss Edith Yarnell instructs Foreign Languages—Latin and Spanish. Mathematics (Algebra and Geometry) are taught by Miss Rodda Foss. Mr. H. M. Challender has special classes in Solid Geometry and Algebra II.

The "vocational" classes are: Commercial, Woodwork (Shop) and Home Economics. Bookkeeping, Typewriting and Shorthand constitute the Commercial classes. Miss Dorothy Norrish is instructor in this department.

Coach Glover Milam of Hanna High School.

Anyone who has ever seen any of the work done in the High School Shop readily declares that this field has not been neglected. It is an excellent department and Woodwork is one of the most popular classes among the high school boys. Mr. E. N. Pearson is the teacher.

Cooking and Sewing, the Home Economics classes are taught by Miss Cleo Capps. The one big affair given annually by the Cooking class is the Schoolboard Teachers' Banquet.

Miss E. M. James is instructor in Music and also the director of the Glee Clubs and the school orchestra.

Athletics play quite an important part in the school life of most students. Although Football was discontinued this year, Hanna boasted of good Basketball teams, both boys and girls. Track is the big item at the present time. Another unit that we may be proud of is our spacious Gymnasium.

A great many activities have found room to edge into the school routine. Numerous clubs exist in the institution. Perhaps among these the "H" Club is the most active. It is an organization of all letter men in High School. A "letter man" is some student who has earned an "H" in some sport—football, basketball or track. The club has at various times throughout the school year sponsored "mixers" or dances as a means for acquir-

ing money with which to purchase awards for any of its members, who are seniors in High School. This year each Senior of the club was presented with a beautiful navy blue sweater. John Milliken is its active president and Coach Milam is the sponsor.

The Booster Club, which is open to all Junior and Senior High students who do not belong to any squad, is the "pep" unit. Garnet Stultz is the president with Mr. H. M. Challender as sponsor.

The Omega Phi Alpha, organized last year for the purpose of scientific research, is a club for students who are taking a course in Biology. Hazel Jones is the president of this group. Miss Lucille Johnston is its sponsor.

A new club, the "Masquers" or Dramatic Club, was organized this year, its purpose being the study of better drama and drama appreciation. However, this club is not active at present since its sponsor, Miss E. M. Behrenfeld is coaching the Senior play. Amelia Leino is the president.

The official publication of the Hanna High School is the "Pioneer", a six-page paper which is published monthly by the Senior class.

Entertainments of various kinds are given throughout the school year. An initiation party is the first among these. On this occasion the Freshmen receive their official "welcome", from the three upper classes, into the premises of the Hanna High School. Each class is entitled to one party during the year, at which they are hosts to the three remaining classes.

Among the most picturesque and epoch-making events of each term is the Junior-Senior Banquet. This affair is held annually during the month of May, when the Juniors are hosts to the Seniors and Faculty.

Another annual affair exclusively for Juniors and Seniors is the Sneak Picnic. The Seniors hold secretive meetings and make plans that remain deep, dark secrets until after the event. The Juniors also make plans and appoint wide-awake, alert detectives. In the wee sma' hours of the morning the Seniors sneak with the Juniors "hot" on the trail.

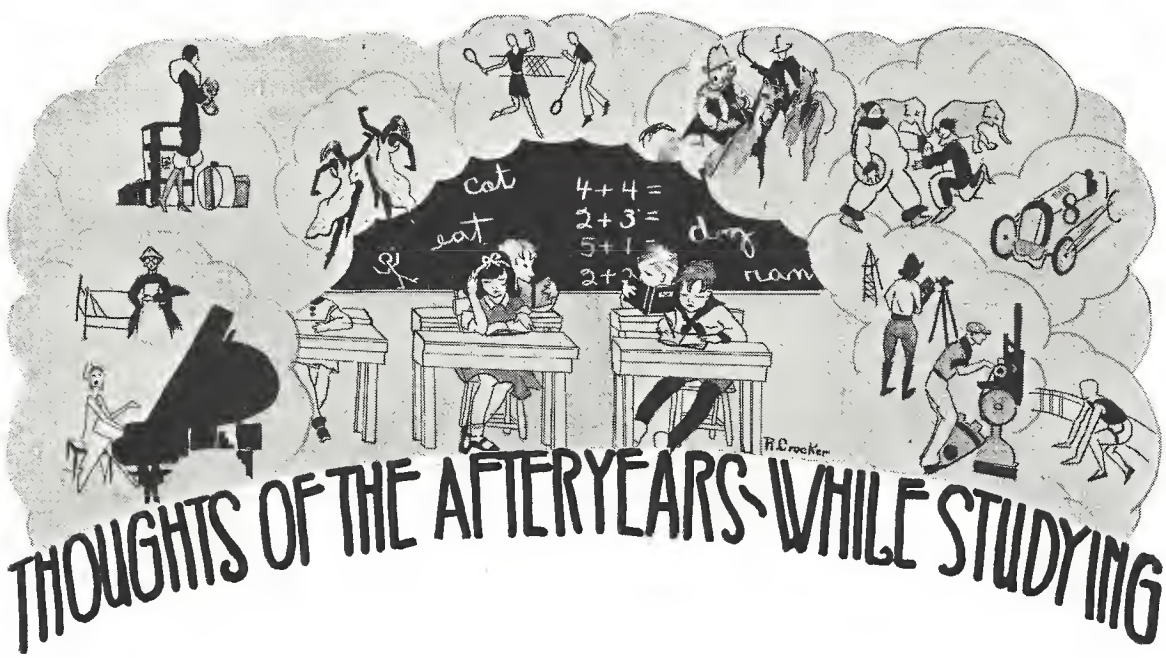
By this article we have endeavored to acquaint you with the Hanna High School. We wish to take this opportunity to extend a standing invitation to all who may be interested, at any time, to pay us a call.

The Richer Mines

No man is so poor but that he is a stockholder. Yet many a man has no real riches; his stocks draw dividends in dollars and cents only.

When it comes to buying shares
In the mines of earth,
May I join the millionaires
Who are rich in mirth.
Let me have a heavy stake
In fresh mountain air—
I will promise now to take
All that you can spare.
When you're setting up your claim
In the Mines of Glee,
Don't forget to use my name—
You can count on me.
Nothing better can be won,
Freer from alloy
Than a bouncing claim in "Con-
Solidated Joy."
You can have your Copper Stocks
Gold, and tin and coal—
What I'd have within my box
Has to do with soul.

—*John Kendrick Bangs.*



Of Interest To Women

Two Menus Used by the Supper Class of Rock Springs Night School Prepared by Mrs. Alberta Esslinger

Breakfast Menu

APPLE COMPOTE
CREAM OF WHEAT WITH DATES
BREAKFAST MUFFINS—ITALIAN PLUM CONSERVE
GOLDENROD EGGS
BREAKFAST CHOCOLATE

RECIPES

APPLE COMPOTE—*6 Servings*

6	Apples tart	2	in. stick Cinnamon
1	C. Water	f. g.	Salt
¾	to 1 C Sugar	1	Grated rind of
2	Tbsp. Lemon juice		Lemon

Cook the sugar, salt, water, and stick cinnamon together, 5 minutes. Add the washed, cored apples, pared or not, and cook slowly uncovered, turning frequently until tender. Apples should retain their shape. Remove carefully to serving dish. Discard stick cinnamon, add lemon juice and grated rind to sirup, and pour over apples. Serve hot or cold.

CREAM OF WHEAT WITH DATES

½	C Cereal	1	tsp. Salt
3	C Water	10 or 12	Dates

Heat water to boiling point, add salt stir in cream of wheat gradually. Cook about thirty minutes in double boiler. When the cooking is about half done, add the dates, which have been cut into fine pieces.

PLAIN MUFFINS—*12 Muffins*

2	C White flour	1	C Milk
3	Tbsp. Sugar	1	Egg
3	tsp. Baking Powder	2	Tbsp. Fat
½	tsp. Salt		

Sift flour once before measuring mix and sift dry ingredients 2 or 3 times. Combine melted fat, beaten egg, and liquid. Fold dry ingredients and liquid ingredients together with not more than 10 or 12 motions. Mixture is not smooth. (Flours vary in gluten content; so more liquid may be necessary). Fill greased muffin tins 2/3 full. Bake in moderate oven; 15 minutes, for small gems, 25 to 30 minutes for large muffins; on lower rack for 2/3 time of baking, upper rack latter 1/3 of time. Tests when done (a) double in bulk, (b) loose in pan, (c) spring back when touched.

MUFFIN VARIATIONS—*12 Muffins*

1. Cornmeal Muffins—Plain muffins plus:

1 C. Cornmeal ½ C. Milk, increase

Substitute 1 C. Cornmeal for I C. flour of plain muffins. For cornbread, bake in shallow, well-greased pans.

2. Date Muffins—Plain muffins plus:

½ C. Chopped dates

Add chopped dates to flour.

3. Jelly Muffins—Plain muffins plus:

2 Tablespoons Jelly

Drop ½ Tsp. jelly on top of each large muffin (¼ Tsp.—small muffin) when placed in the oven.

4. Peanut Butter Muffins—Plain muffins plus:

1/3 C. Peanut butter

Substitute 1/3 C. peanut butter for fat of plain muffins.

5. Raisin and Nut Muffins—Plain muffins plus:

¼ C. Chopped raisins ¼ C. Chopped Nuts

Add raisins and nuts to flour.

6. Blueberry Muffins—Plain muffins plus:

2 Tbsp. Sugar ¾ C. Blueberries

Combine blueberries with flour of above recipe.

7. Breakfast Muffins—Plain muffins plus:

¼ C. Chopped bacon

Substitute ¼ C. chopped bacon, slightly fried, and fat, for the fat of plain muffins.

GOLDENROD EGGS—*6 Servings*

3 or 4	Hard-cooked eggs	1½	Tbsp. Butter
2	Tbsp. Flour	1½	C. Milk
⅛	Tsp. Pepper	6	Pieces Toast
¾	Tsp. Salt		Parsley

Heat the butter; when it bubbles, remove from fire, add flour and salt mixing thoroughly.

Add the milk slowly, mixing thoroughly. Put on to cook. Stir constantly (to prevent lumping) until sauce has boiled 3 minutes. Separate yolk and white of cooked egg, and chop whites; add to white sauce. Pour over toast, and press yolks through a a strainer and sprinkle over top.

BREAKFAST CHOCOLATE—*6 Servings*

1½	Sq. Chocolate	1/3	C. Sugar
2	C. Water	2	C. Milk
f. g.	Salt		

Mix chipped chocolate, water, salt and sugar, and boil 10 minutes. Add scalded milk, cook in double boiler 20 to 30 minutes to develop flavor. Beat until frothy with dover beater, serve in hot cups immediately. Cinnamon 1/16 Tsp., improves flavor.

Dinner Menu

SARDINE CANAPES
VEAL BIRDS
BAKED POTATOES ON HALF SHELL
HARVARD BEETS
HEARTS OF LETTUCE WITH MAYONNAISE DRESSING
HOT ROLLS
INDIVIDUAL BUTTERSCOTCH PIE COFFEE

SARDINE CANAPES

Cut stale bread 1/4-inch thick, remove crusts and cut strips 2½ inches long and 1 inch wide. Toast on one side, spread toasted side with sardine butter, and garnish with a narrow border of chopped, stuffed olive and a slice of stuffed olive in the center.

Sardine Butter. Work 3 tbsp. butter until creamy, add ¾ tsp. sardine paste and a few drops each onion juice and lemon juice. Season with paprika.

VEAL BIRDS

1½	lbs. Veal steak	1	beaten egg
½	onion finely chopped	2	tbsp. melted butter
		¼	C hot water
1½	C bread crumbs		Salt and pepper

Mix bread crumbs, melted butter, seasonings, egg and water. Spread on veal steak. Roll and fasten with toothpicks. Add a little water to cover bottom of pan and bake in a moderate oven for about 1 hour, basting occasionally.

BAKED POTATOES ON HALF SHELL

2	Tbsp. butter	1	tsp. salt, pepper
3	Tbsp. milk	6	baked potatoes

Cut baked potatoes in halves lengthwise. Remove the inside, taking care not to break the skin; mash the potatoes, add the milk, butter and seasonings, and beat them as ordinary mashed potatoes. Return the mixture to the potato shells, place the stuffed potatoes in a pan, sprinkle with grated cheese and bake in a hot oven until brown.

HARVARD BEETS

12	small beets or	2	tbsp. butter
2	C dried beets boiled	¾	C vinegar
½	C sugar	¼	C water
1½	tbsp. cornstarch		

Mix sugar with cornstarch, add to the liquid and cook until clear and thick. Add the butter and pour over the cooked beets and heat all together.

BUTTERSCOTCH PIE

Pastry

1½	C flour	6 to 8	Tbsp. lard
4	Tbsp. water	½	tsp. salt

Filling

1	C brown sugar	1	Tsp. vanilla
4	Tbsp. cornstarch	1	Tbsp. butter
⅛	tsp. salt	2	egg yolks
1½	C milk scalded		

Scald milk, combine, stirring slowly, with sugar, cornstarch, and salt made into a paste with cold water. Cook 15 minutes in double boiler, stirring constantly, until thickened and well flavored, and spoon leaves mark in mixture. Stir into beaten egg yolks and reheat. Add flavoring and butter and cool. Fill individual crusts, cover with meringue, and brown in oven.

Peter and Paul

By EDGAR GUEST

Peter's the fellow I go to whenever Paul presses his claim.
Peter is easy to deal with, Peter's not ready with blame;
Paul has a way of insisting I shall be true to my word,
And hints of a final accounting whenever a debt is incurred.

Peter is pleasant and smiling and ready to lend when he can;
Paul offers counsel and caution and talks of the ways of a man,
And whenever Paul's debts must be settled and I must return what I owe
And haven't the money I promised, to borrow from Peter I go.

But the more that I think about Peter the greater my fancy for Paul,
I know he'd be first to defend me if ever disaster should fall,
For Peter thinks only of money and smilingly reckons his fee,
While Paul, when he whispers of caution, thinks not of himself but of me.

Paul would defend me from trouble, would shield and protect my renown,
But Peter would add to my burdens and smilingly let me go down.
Yes, Peter, the pleasant, would wreck me, and gloat when I ride to my fall,
So the more that I learn about Peter, the greater my fondness for Paul.

Who's Who With Us

Superintendent Busby Accepts College Position

LEONA DRAPER, IN THE RELIANCE BLINKER

It seems that the Reliance High School is a stepping stone to college positions. Miss Ramona Simpson accepted a position in Chicago University two years ago. Mr. Hanna, who was our superintendent last year, is now instructor in the University of Wyoming; and now Mr. Busby has accepted a position with Southwestern University of Kansas.

Harrison W. Busby, A. B., M. A.

During the summer he will accompany the University's Travel Course as Professor of Natural History and will lecture on biology and art in twenty-five states of the Union and two Canadian Provinces.

Southwestern University is to be commended in getting Mr. Busby for this work as he has had much experience along this line, having traveled in every state in the union and fourteen foreign countries of Europe and South America in the interest of biology and art; collecting biological specimens and visiting the the larger art galleries of the world and the International School in Switzerland.

Mr. Busby is well trained for his new work. He is a graduate of Fort Dodge Business College and the Chicago School of Art, besides having a B. A. Degree from Iowa State College and work on his Master's degree from the University of Washington. He also has had special work at the Marine Biological Station in Washington.

In experience Mr. Busby is well versed in all phases of school work as he has taught all grades in the system. He has been a teacher, a supervisor, a superintendent, an inspector of schools, and an instructor in Business College. Now he advances to a college position. Mr. Busby has written several articles for educational magazines and is now completing a didactic novel which goes to press soon. His cartoons and sketches have appeared from time to time in college papers and publications.

As superintendent of our schools, Mr. Busby has brought up the standard to a marked degree. The students have had more active interest in school this year than ever before. A great amount of new furniture, long needed, has been added. New courses in Commercial subjects, Home Economics, English, History and Spanish have been added. A complete record system from the first grade through the high school has been installed this year—the first complete record system the school has ever had. We also have to thank Mr. Busby for the school paper, "The Blinker," that was introduced this year with such great success.

This year has marked a year of improvement and reconstruction. The first part of the year was cluttered up with classes in the halls, and the finishing of new class rooms. The new Gymnasium will be under construction in a few days. All of these things detract from the regular work of the school, but in spite of this inconvenience the school has advanced.

The things Mr. Busby has done for the Reliance High School will be long remembered and although we are sorry to lose him, we are glad that he has the opportunity of going to a higher position than our school can offer.

Karl F. Winchell, A. B., M. A.

By HELEN DOROTHY HARTNEY

Mr. Karl F. Winchell came to us four years ago from Eaton, Colorado, to assume the responsibilities and cares of Principal of the Rock Springs High School. He received his education at Greeley Teachers College and Denver University, and is now registered at Leland Stanford. He has travelled widely and brought to our school much experience in teaching and administration of school affairs.

Karl F. Winchell, B. A., M. A.

His was no easy task as he faced the cramped conditions of our school, and the problem of adapting classes and activities to class room space. Two years ago he adopted the supervised study plan for our High School. It has proved very satisfactory.

He has secured the organization of and has put into effect a student association through which students participate in the management of school affairs.

During the time that Mr. Winchell has been with us he has won the love and esteem of student body and faculty. The thought uppermost in his mind has been the welfare and advancement of the school. He stands for better standards and honest citizenship. All respect him because he practices what he preaches.

H. M. Challender, Superintendent of Hanna Schools

By J. M. HANNA

Superintendent H. M. Challender of Hanna has had an interesting career, one of wide experience which must be reflected in a broader horizon for the students whose school life he supervises.

He was born in Burlington, Iowa, where, too, he received his early education. He attended Northern Arizona Teachers College at Flagstaff, Arizona, the University of Arizona, Nebraska University, and the University of Wyoming. He is a member of Phi Gamma Mu, National honorary Political Science fraternity, and for his further study and summer courses he is registered at Stanford University, looking to an M. A. degree from that school.

H. M. Challender, A. B.

During the World War Mr. Challender served with the United States Marines and shared in the world-heralded bravery and achievements of this prized service. After the armistice he was drafted into the teaching staff of the Army Schools and helped in the organization and educational feat which established American schools and colleges for the citizen-soldiers who must wait months in a foreign country for transportation and demobilization.

Returning to America Mr. Challender again took up his profession and has taught several schools in Wyoming. He has just completed his fourth year as Superintendent of the Hanna Schools and is looking forward to still further improvements and advance. He is extraordinarily proud of his first assistant, Harry Challender, Jr., who is now two years old.

George Harold Burton, A. B.

By CHARLOTTE TEGARDEN

Mr. George Harold Burton is the newly-elected Superintendent of the Superior Schools. For the past year he has been Principal of our High School, and when this year our Superintendent resigned, we were all glad to have for our Superintendent-elect someone whom we had learned to respect so thoroughly.

George Harold Burton

Mr. Burton is a real westerner, a graduate of Billings, Montana, High School and of the University of Wyoming. His teaching experience has taken his to Washington and Wyoming schools.

He is a charming gentleman possessing unusual tact and a rare sense of humor. During the past year he has become invaluable in various community undertakings and school enterprises.

We wish him all success in his new position.

Gilbert Johnson, Principal Rock Springs Junior High School

By ALTHEA TOLTON

Gilbert Johnson, Principal of our Junior High School is the best friend of all of us who are students in the school. He was educated at State Teachers College, Kearney, Nebraska, from which school he received an A. B. degree. This summer he plans to attend the University of Wisconsin looking to a Ph. M. degree.

Gilbert Johnson, B. A.

Mr. Johnson was brought up in Nebraska, but after his three years in Rock Springs, he is a real Wyomingite. He says he likes the climate and the hills, and we think he likes us. He also says he likes the cosmopolitan nature of our town and the opportunity it affords him in his work. Mr. Johnson is most interested in the study of literature

and sociology and has written some articles of a sociological nature.

Mr. Johnson is quiet, but we all feel the influence of a real student, very interested in the progress of our school, its expansion and buildings; and in our problems, athletics; in student government. We like Mr. Johnson and we feel that he likes us. He was married in Rock Springs to Miss Beryl Snyder of the teaching staff and their baby, Thornton Kyle, is a very pretty boy.

The World's Deepest Hole

OF THE numerous great achievements of the American oil industry since its inception in 1859, when oil was discovered in Pennsylvania, none has been greater nor more important that the progress which has been made in the science and technique of drilling oil-wells. In 1859 Colonel Drake, following a shrewd deduction, laboriously drilled what proved to be the first oil-well. It was sixty-two feet deep. The first producing well in California was drilled in 1866 to a depth of 500 feet. Only a few years ago Eastern oil men came to California to study the remarkable deep-drilling methods which had been developed by the California oil industry. At that time they saw what were considered phenomenal holes four and five thousand feet in depth.

A few days ago a well drilled by this Company, called "Standard Mascot No. 1," in the Midway Field of the San Joaquin Valley, reached a depth of 9,629 feet, the greatest penetration of the earth ever achieved. The drilling of Standard Mascot No. 1 has ceased for the time being, not because it is mechanically impossible to go farther, but because it does not seem wise to do so at the present time. The drilling of this deepest hole occupied 458 days, and was most skillfully done by crews of drillers highly enthusiastic over beating a world's record. At the bottom, the well is 7⅞ inches in diameter, which is a very large hole for such a depth.

The importance of deep drilling has been established. In the Santa Fe Springs Field in California, for example, the first oil in large volume was found at approximately 3,500 feet. Improved drilling machinery and methods enable prospectors to go still deeper to new and prolific sands. In all, the drill found eight distinct oil zones. Oil is now produced in this field from as deep as 8,000 feet. A few years ago the industry would have had to stop at higher levels and the deeper sands would not have been discovered. As a matter of production, the discovery of the deeper sands is equivalent to the discovery of new oil-fields. Kettleman Hills, the remarkable new field in the San Joaquin Valley, where this Company has such large holdings, furnishes another striking example of the value of the improvement in drilling. For nearly twenty years wildcatters endeavored to find oil in this region. It is estimated that between twenty and twenty-five miles of dry hole were drilled. This Company's records show that for years Company geologists have made favorable report on Kettleman Hills, but owning its lands in fee, the Company refrained from drilling, preferring to hold the property until oil was needed. Then in 1928 the Milham Exploration Company drilled to a depth of 7,236 feet, deeper than any one else had ever gone in this area, and found a wealth of oil, discovering, indeed, what will possibly prove to be the most remarkable oil-field in the world.

Standard Mascot No. 1 indicates the feasibility of exploring, under favorable conditions, to depths of 10,000 feet, something impossible before the development of modern drilling. If improvement of drilling equipment continues as is the past few years, it may be possible to attain greater depth. The possibility of such deep prospecting coupled with the fact that in many places new supplies of oil have been found beneath old fields, is very reassuring from the point of view of the future supply of petroleum.

—*Standard Oil Bulletin.*

Right—Wrong

Here lies the body of Willie Gray,
Who died maintaining the right of way,
Willie was right as he sped along,
But he's just as dead as if he was wrong.

WRONG AGAIN

"You know they are starting a new campaign against malaria."

"Good heavens! What have the Malarians done now?"

WHAT DO YOU THINK?

"What's an operetta?"

"Don't be foolish—it's a girl who works for the telephone company."

AT LEAST HE WORKED

"My office boy whistles while he works."

"You're lucky. Mine only whistles."

CHANGE COLORING

He—"My dear, our engagement must be off. A fortune teller has told me I shall marry a blond within a month."

She—"Oh, that's all right; I can be a blond within a month."

UNDERSTAND

Author: "This is the plot of my story. A midnight scene. Two burglars creep stealthily toward the house. They scale a wall and force open a window of the house. As they enter the room, the clock strikes one."

Grace: (Breathlessly) "Which one!"

Ole's Girl Attends Night School

Dedicated to Our Americanization Classes

Aye ban to night school this English to learn,
And aye write all dem hard words dat I see;
Aye ban getting a kick from the drill of the sounds,
For my Ole ban smiling on me.

Aye learn about pronouns, adverbs, adjectives,
A noun with a verb should agree;
Aye speak the words slowly so don't make mistake,
While my Ole ban smiling on me.

Today I love; tomorrow will love—
I say it always perfectly;
Seems to come out just right—easy to think
When Ole ban smiling on me.

Dem hard ones that change, like I break and I broke
Which tomorrow can't tell what should be!
But dis thing I know, my heart she ban broke
If Ole aint smiling on me.

Aye make nice figures all down in a line,
It ban hard to add dem as can be,
But soon Aye should mak what you call multiply
So Ole keep smiling on me.

Aye mak out dem bill vat dey want you to pay,
And fill out order blank so carefully;
Aye write long letter to friend in Ol' Country,
While Ole ban smiling on me.

Aye ban reading 'bout George Washington, Seventy-Six,
An' Lincoln, how he set the slaves free,
But any oder president—I get him all mix,
Soon's Ole begins smiling on me.

Aye go to the map, point out State Wyoming,
An' Union Pacific by which came to dis country;
An' find the New York where Statue Liberty stude,
Just so Ole he smile up at me.

My Ole he sits in very front row,
Bully fine an' yim dandy's can be
When he smiles at the teacher, yust like her beau,
Aye tink it dem smiles are for me.

When next year my citizenship papers they mak,
If all the big questions Aye see,
A voice in the governorship of Wyoming Aye'll tak,
Then Ole better ban smiling on me.

For I'll go to the polls and cast out my vote,
Yust as big as my Ole can be;
Since a shance for divelopment it aint been no yoke,
For my Ole to smile around me.

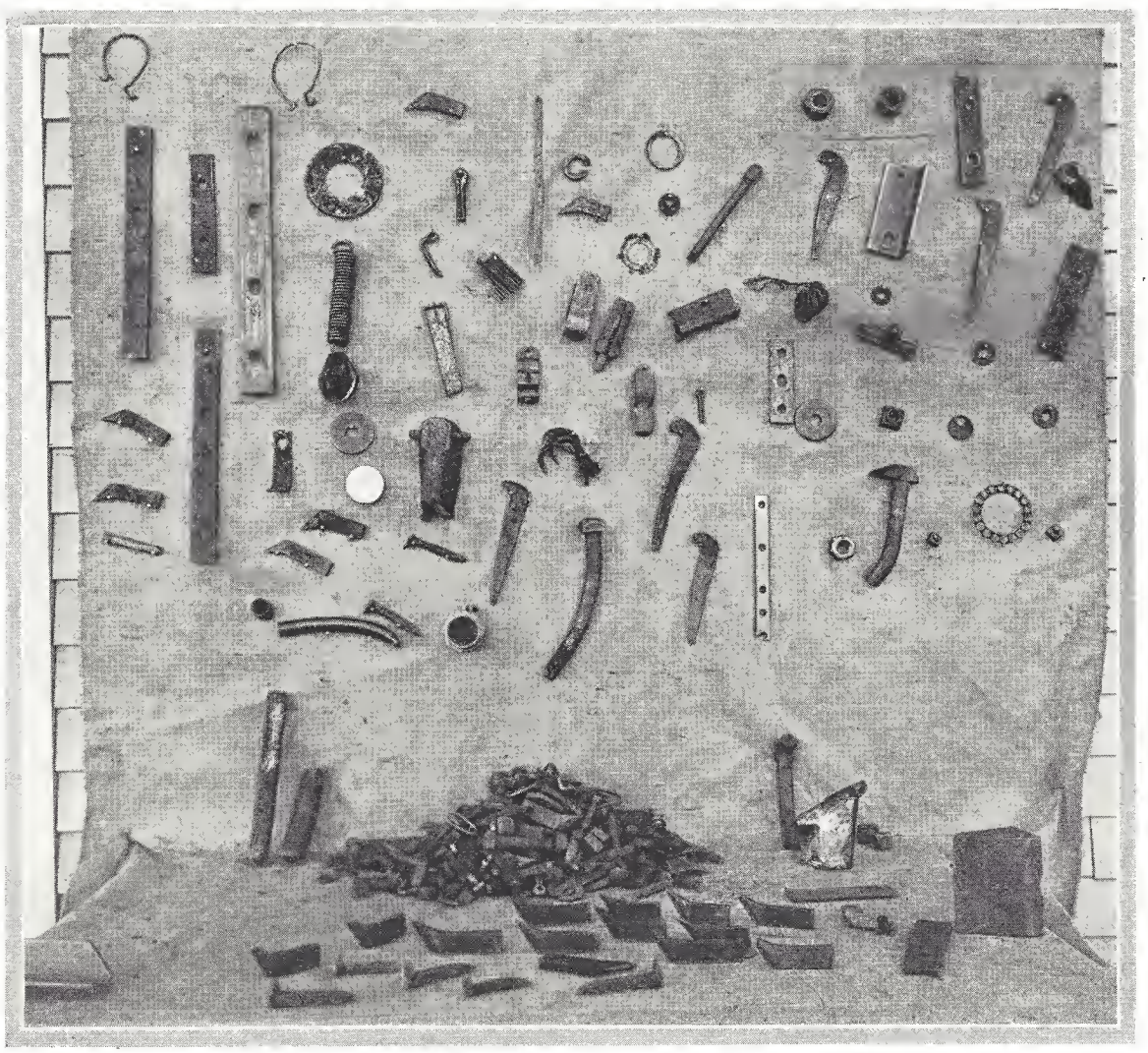
But if Ole aint been fickle an' mak always smile
For oder pretty girls that he see,
An' have great af'ection, and look where he smiles,
It's some use to ban smiling on me.

Members of The American Legion Auxiliary of Rock Springs entertain the Americanization Classes at the last session of Night School. They may have gotten the idea of a mess line from their husbands.

Foreign Material in Railroad Fuel

For two years the staff of The Union Pacific Coal Company has been waging an intensive campaign amongst its employes, asking them to be careful in the loading of foreign material in railroad fuel. Numerous complaints have been received from the Union Pacific Railroad Company regarding the delays to both passenger and freight trains on account of foreign material getting into the locomotive stokers.

Employes have been advised of this repeatedly—bills have been posted both in and around the mines—employes have been exhorted to load clean coal, and have been notified of the complaints received from the railroad company—additional men have been put on cleaning coal, both inside and outside of the mine, and more recently magnetie pulleys were installed at the tipple of No. 8 Mine, Rock Springs, and at Winton tipple, but the loading of impurities, particularly tramp iron, shows little abatement, as is evident by the above photograph. The picture shows iron taken from No. 8 Mine separator pulley only. Tramp iron of all kinds is still being loaded in the coal regardless of all instructions issued.



While we know it is difficult to pick small pieces, such as spikes, etc., yet the loading of a large part of this material shows gross carelessness on the part of our employes. Mining machine bits particularly are noticeable, the larger number of them being sharp bits, evidently laid on the floor with the intention of changing dull bits, the men thereafter deciding not to make the change and leaving the sharp bits on the floor, they being later loaded and allowed to get into the pit cars. The presence of so much tramp iron in the coal not only delays trains, as has been stated, but represents a definite loss in material, as at least 75 per cent of this is usable material.

We have been content heretofore to warn our men regarding the necessity of loading clean coal, coal free from rock and tramp iron, but if our employes continue to load material as shown in the photograph, and in such amounts, we will be com pelled to drop offending employes from the service.

Our Young Women

Hanna Girl Scouts Candle Lighting Ceremony

By ETTA DODDS

The Hanna Girl Scouts with Captain Lucille Johnston and Lieutenants M. Fligner, and Etta Dodds, renewed their vows, laws and trusts as Girl Scouts through a candle lighting ceremony on the evening of Monday, April 14th. It was an impressive ceremony with the lighting of the "Law Candles," the singing of "Oh Father, we Would Give Thee a Scoutship Strong and True," then our own Girl Scout prayer first written for Superior girls by Mrs. Eugene McAuliffe.

This ceremony was followed by a series of patrol stunts. Patrol I dramatized the Girl Scout Laws very cleverly. Patrol II illustrated a campfire, in an up-side-down day. Patrol III had a make-believe broadcast composed of songs, piano selections and stories. Patrol IV arrived as the "Gigges Family" and produced a playlet. Irene Lucas, Bessie Clegg and Annie Van Renterghen are Patrol Leaders. Bertha Perl, Bobby Molyneux, Virginia Hager, Freda Pickup, Lola Taylor and Clara Lemoine were made tenderfoot Scouts and the following girls were given their Second Class badges: Ruley Fearne, Hazel Jones, Helen Van Renterghen, Irene Lucas, Mildred Miller, Annie Tate, Thelma Panman, Margaret Rennie, Cora Russell, Ruth Milliken, Elizabeth Crawford and Dot Cook.

Parents and friends were guests and the leaders appreciated the splendid attendance.

The Girls Friendly Society

By LUCILE WARD

President of the Senior Group, Girls' Friendly Society, Rock Springs, Wyoming

No one, who has not found out by personal experience, can realize the tragedy of loneliness in a great city. The Girls Friendly Society is the salvation of many girls who are trying to gain a foothold in the business and industrial life of such a city, and was organized for their assistance.

The word Friend is the keynote of its service. It stands for purity, religion and friendliness, three things worth while in life. It is not denominational, although it is sponsored by the Episcopal Church. It helps a girl to find suitable lodging (in some places maintains homes) it helps her to keep in touch with her church and the church people of her denomination—gives suppers and socials that she may become acquainted with other girls—in fact, is ready to help her in any emergency. It maintains vacation homes in many lovely places, where its members may for a small amount enjoy happy, carefree, vacations.

As it is not difficult to get acquainted in Rock Springs the Girl's Friendly Society in this city does not do quite the same type of work as the above. There are two groups, the Junior group composed of the younger girls and the Senior group, whose members are mostly young business women. Mrs. T. S. Taliaferro, Jr., Mrs. D. D. Spani, Mrs. Joseph Armstrong and Miss Lola Wilson are the associate members.

The Girls Friendly Society in Rock Springs does charity work for parish, state, nation and world. Both groups for their world and nation work give donations to missions; in the parish work they donate to the needy at Christmas time. Perhaps the outstanding work done by the Senior group of the G. F. S. in Rock Springs is the sending of birthday boxes to every child in the Cathedral Home in Laramie (and there are over sixty). The children eagerly look forward to these boxes. The Juniors take charge of one child at the home, clothing her and making her gifts. A group of these girls belong to the Altar Guild of the Episcopal Church.

This is just my opinion but I hope that this brief resume has told the readers of this magazine a few of the objects of this worthwhile organization which stands for every high ideal of girlhood.

Summer Rains

By KATHRYN FORTUNA, *Rock Springs*

I love the summer rains
That come running down from heaven,
Like a group of merry children
Dancing on the garden plot.

Where do you go so quickly?
Why do you run away?
I'd love to have you here with me
All the live-long day.

I hear you approaching sometimes
By the herald in the sky,
And the clouds all open their doors
So that you can come out and dampen our floors.

Once-silver radiator,
With your mars and scratches
Made by countless shoes
Of pupils thinking hard—
You resemble an old warrior
Returning from the clutches
Of heathen foes,
Battle-scarred.

—*Gertrude Rautiainen, Rock Springs.*

Our Little Folks

How Ginger Got His License

By ELIZABETH GALE *(Adapted)*

JIM, dirty, ragged little Jim, sat on the curb with his bare feet in the gutter and cried. Beside Jim sat Ginger, his dog. Ginger cuddled up close to the little boy and every few minutes he kissed the small dirty face, and then he threw back his head and howled. Just as Jim was sobbing loudest a merry little girl came skipping around the corner.

"Well, what is the matter with you?" she demanded, stopping short when she saw them.

Jim looked up at her through his tears, swallowed a sob, and said, "H-hello, M-Maggie."

"Hello, yourself," said Maggie, and sat down beside him. "Has anyone been hurting you?"

Jim shook his head.

"Are you hungry?"

Jim shook his head again.

"Then tell me what the trouble is," Maggie commanded.

"We c-can't get a license for Ginger!" wailed Jim. "It c-costs a d-dollar and we only got ten cents. The Judge is goin' to give us till tonight and then if we can't get it he is goin' to put Ginger in the p-pound." Jim finished with a wail and Ginger joined him with a mighty yelp.

"Where are your two brothers?" asked Maggie.

"Bill and Bob are both selling papers," returned Jim when he could speak.

"Then," suggested Maggie, "why don't you sell papers too, and help them earn money for the license?"

"I c-can't," sobbed Jim, "I'm too little. The policeman says I can't till I'm bigger."

"True enough, and right, too," said Maggie and sat there thinking while Jim cried again. She knew the three boys very well. They were alone in the world and it was all the older boys could do to pay for the small back room where they lived and take care of their little brother. How could they possibly find an extra dollar for the license? She stroked Ginger's coarse coat as she wondered, then got up.

"How long have you been crying?" she demanded of Jim.

"I don't know," returned Jim. "A long time."

"Did you make any money at it?" asked Maggie.

"N-no," said Jim, wondering.

"And it didn't make you feel any better, either, I know that," said Maggie, "so why don't you stop for a change? Why don't you smile and begin to expect that somethin' nice is goin' to happen?"

"N-no use," sobbed Jim.

"But it won't do any harm," urged Maggie. "Let's just try it. Aunt Bessie says laughing brings luck."

"She's always laughing," said Jim.

"And it's lots better than crying," said Maggie. "Why don't you try the laughing way?"

Jim looked and felt as if he could never laugh again. He picked up a stone from the gutter and flung it aimlessly out into the street. The minute it left his hand, Ginger bounded after it. Almost as soon as it touched the ground he had it in his mouth and came prancing back and dropped it at Jim's feet. And then Jim smiled! His face fairly beamed as he turned to Maggie and said:

"That's only one of his tricks. He knows a lot more. Want to see him do them?"

Of course Maggie did want to, so Ginger began to do his tricks. He sat up and begged. He jumped over a stick. He played "dead dog," and then Jim ordered him to "walk like a lady!" and he stood on his hind legs and went strutting down the street as if he were very proud of himself, and he looked so perfectly foolish with his solemn dog face wagging from side to side, that the two children laughed and shouted as they watched.

But right in the midst of their laughing they stopped and turned around, for someone else was laughing too, and as they turned they saw a man coming toward them.

"It is the very thing I have been looking for," he cried. "How would you children like to be in a moving picture with your dog?"

Jim and Maggie could scarcely believe their ears.

"We are taking pictures just a few blocks away," continued the man. "Run and ask your mother if you may come."

"There isn't any mother," returned Maggie, "but I'll tell Aunt Bessie about it," and off she flew down the street and was back again before Jim had finished showing the man the rest of Ginger's tricks.

"I have found just the sort of dog and jolly looking children I have been looking for," said the man when they reached the place where they were taking pictures; and then he had Maggie and Jim sit

on the curb and make Ginger do all his tricks while they made moving pictures of him and the children.

When the pictures were finished the man gave them fifty cents each—fifty cents to Maggie, fifty to Jim and another fifty for the dog. Jim's eyes grew big as the man handed him the money.

"Why," he cried, "it is enough for the license!"

"And so you see," said Maggie, as they went back up the street together, "laughing does bring luck!"

That night there were three happy boys in the little back room of the old tenement house, for when Bill and Bob came home Jim gave them the dollar and told them how he and Ginger had earned it. And when he had finished the story Bob took the money and went out to pay for Ginger's license. While he was gone Bill found a piece of cardboard and printed on it in big black letters: "Laughing Brings Luck." They tacked it up on the wall for their family motto.

News About All of Us

Rock Springs

Mrs. Bennett Outsen has returned from Seattle, Washington, where she was with her husband who recently underwent a major operation in a Seattle hospital. He is now rapidly recovering.

Dr. H. J. Arbogast made a short business trip to Ogden, Utah, on Tuesday, May 6th.

Mesdames George Ward, Hugh McLeod and William Matthew went to Rawlins where they attended the funeral of the late Mrs. Charles Higgins.

John K. Smith is ill and confined to his home on Seventh Street.

Miss Jennie Toucher visited a few days with Miss Anna Angelovich at Burnt Fork.

William Sherwood, and son Roy, are recovering from injuries received in an automobile accident when they were enroute to Coalville, Utah, on Saturday, April 21st.

John Fortuna is the son of Old Timer and Mrs. A. Fortuna of Rock Springs, and is home after three years' training in the United States Navy.

Mr. and Mrs. Joseph Dyett are visiting friends in Salt Lake City.

Some of our friends who recently received their citizenship papers are: Angelo Simon, James Laing, Rudolph Dolence and Barbarette Walsh.

Ben Butler went to Denver, Monday, April 28th, and drove back a new truck for the Hanna Mines.

Mrs. William Welsh is recovering from a major operation recently undergone at the Wyoming General Hospital.

John Dolgas, formerly of Superior, has accepted employment in No. 8 Mine.

Mrs. Pete Skorup is ill and confined to her home on Tenth Street.

Wm. Phillips and family left on Saturday, April 26th, for Iowa, where they expect to locate.

Mr. and Mrs. Lloyd Geary, of Kemmerer, spent Easter Sunday visiting at the home of Emil Berquist.

Jack Pavlich, and son Jack, Jr., of Reliance, have accepted employment in No. 8 Mine.

Mrs. Edward Willson is ill and confined to her home in the Barracks.

Mrs. Wm. W. Williams, of Ogden, Utah, is visiting here with her daughter, Mrs. James Reese.

Chris Dadich, of No. 8 Mine, is erecting a new home on N Street at No. 3.

Mrs. John Yugovich died at the Wyoming General hospital on Monday, April 21st, and was buried from the North Side Catholic Church on Thursday, April 24th. The sympathy of the entire community is extended to the family in their bereavement.

Mrs. Frank Golob has returned from a two months visit with relatives in Chicago.

Mr. and Mrs. Matt Morrison entertained at a card party on Saturday evening, May 3rd, at their home on Pilot Butte Avenue.

Mrs. Angus J. Hatt is recovering from a major operation undergone on Tuesday, May 6th at the Dee Hospital in Ogden, Utah.

George Yakse is ill and confined to his home on Bridger Avenue.

Mr. and Mrs. Robert Muir, Sr., of Long Beach, California, visited here with old friends a few days. They expect to be in Salt Lake City, Utah, and will return here for Old Timers Day.

Thomas Marshall, of Reliance, has been appointed storekeeper here and assumed his new duties on May 1st. We welcome Mr. Marshall and his family back to Rock Springs.

Andrew Bok is confined to the Wyoming General Hospital where he is recovering from injuries received while at work in No. 4 Mine on Monday, May 5th.

Mr. and Mrs. George Parr visited with relatives in Kemmerer on Sunday, May 4th.

Thos. L. Armstrong is confined to his home with an attack of la grippe.

Thomas Woodward attended a convention held by the U. M. W. of A. in Cheyenne, on Monday, May 12th.

Mrs. Thos. Dodds, of Cumberland, visited here with relatives on Sunday, May 4th.

Until there's a greater name than EDISON
---there'll never be a greater RADIO!
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Rock Springs School Notes

By ROCK SPRINGS HIGH SCHOOL

Four students from Rock Springs High School won places in the essay contest sponsored by the American Chemical Society. This society sponsors a contest in each state in the Union, and in Alaska, on five subjects. The five winners in each state then compete for the National Award, which is a scholarship to any school approved by the society, and $500.00 per year for four years.

Marie McLaughlin won first in Wyoming on the subject "The Relation of Chemistry to Agriculture"; John Willson on "The Relation of Chemistry to National Defense;" Vivian Moon on "The Relation of Chemistry to the development of the Coal Industry of the United States." Elijah Daniels placed second on "The Relation of Chemistry to the Home."

The first prize is a $20.00 gold piece and the second prize a set of books entitled "Chemistry in Medicine."

Last year Morgan Walters won in the National Contest and selected Stanford University as his school.

Miss Merle McCall, Chemistry teacher in Rock Springs, deserves much credit for the success of the students in this contest.

Rock Springs High School has a graduating class of 105 students this year, composed of 41 boys and 64 girls. This is the second largest class to be graduated from the school.

May 7th Rock Springs grade schools entertained a large audience at the Elks Club with a musical program of songs, representing the regular work of the school.

Students of the Junior-Senior High Schools entertained in a similar manner on May 9. This program featured numbers by the Junior High music classes, the High School girls glee club and the High School orchestra. These programs were sponsored by Miss Lillian Walton, music supervisor.

On May 15th a mixed chorus, under the direction of Mr. Elmer Halseth, and the High School orchestra, directed by Mr. John J. Bruggemann, entertained between shows at the Rialto.

The class of 1930 presented as their Senior Class Play "Bab," a stage adaptation of the story by the same name by Mary Roberts Rinehart.

A large audience greeted the cast at the Rialto and expressed their appreciation of the efforts of the Seniors by much laughter and applause.

Dr. A. G. Crane, President of the University of Wyoming, will deliver the Commencement Address for the class of 1930.

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This is the best way to save, even though you have no one dependent on you and do not expect ever to have such dependents, and it is even better still for those who do have dependents.

One may be a good saver, and still live his last days in penury for the lack of knowing how to invest his earnings properly.

Most business men lose heavily on investments made outside their business. The average wage-earner loses a large share of his previous savings in various forms of wild-cat and get-rich-quick investments. The percentage of loss suffered by those who have put their hard-earned money into standard old-line insurance companies is almost negligible.

No business man with miscellaneous interests, no investor in stocks and bonds, no dealer in real estate can show so small a percentage of losses as is entailed by those who put their money into high-grade life insurance.

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The Company issued during 1929..	**324,130** Policies
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Protecting homes and business interests for	**7** Billions **266** Millions
During 1929 the Company paid on the lives of 14,640 policy-holders death-claims amounting to..	**61** Million Dollars
During 1929 the Company paid to living policy-holders in maturing policies and other cash benefits	**117** Million Dollars
During 1929 the Company loaned at interest to policy-holders on the sole security of their policies over	**77** Million Dollars
During 1929 the Company paid to its policy-holders in dividends alone (included in the 117 Million Dollars above).....	**66** Million Dollars

D. G. MARSHALL
Special Representative
120 Cedar Street **Phone 409-R**
ROCK SPRINGS, WYO.

Mr. Edward Perko was elected President of the Associated Students of Rock Springs High School at the annual election held this spring.

Mr. Perko has been president of his class for two years and has therefore had considerable training for his new office.

The other officers of the association will be elected next fall soon after school opens.

Out of 165 students in the eighth grade who have registered for High School for next year, only two have indicated that they do not expect to finish High School. This shows the holding power which Rock Springs schools have and also the responsibility on the schools and the community to provide a course of study, which will more and more meet the needs of this group.

As to the future plans, the students plan to study aviation, stenography, nursing, engineering and teaching.

For an activity, camp cookery heads the list with the boys, while glee club comes first with the girls.

Students elected to Gros Ventre, the local chapter of the National Honor Society, are: Marie McLaughlin, Elsie Aho, Virginia Nelson, Eileen Whelan, Nellie Paavola, Marion Chambers, Clarence Smith, Martha Ruatiainen, Fred Adams, Mary Lucas, Arvo Maki.

To be elected one must be in the upper fourth of the class and high in leadership, character, and service to the school.

The Faculty Committee approved the following boys for membership in the National Athletic Scholarship Society: Kenneth Buckley, Charles Travis, Ely Radakovich, Fred Adams, Steve Bartek, Lennie Pentila, John DeBernardi, Curtis Burrell.

To be eligible an athlete must have grades equal to or better than the average of the school for three consecutive semesters, and have a citizenship record satisfactory to the Faculty Committee.

Superior

Mr. and Mrs. W. S. Little, of Diamondville, visited at the home of their daughter, Mrs. Harry Armstrong, during the month of April.

Thomas Love, of Hanna, was a business visitor in Superior during the month.

Mrs. L. E. Harris left Friday, April 25, 1930, for a visit with her sister, Mrs. G. N. Green, and family, at Winona, Missouri. Mr. and Mrs. Green formerly lived here. Mr. Green was Superintendent of Schools.

Miss Stafford of Kemmerer, was a visitor at the home of Mrs. Harry Armstrong during the month.

Herbert and Harold Waite, twin boys of Mr. and Mrs. Hugh Waite of Superior, are three years old.

Mrs. C. G. Scott entertained her regular afternoon Bridge Club at the Club House, Thursday, May 1, 1930. Prizes were won by: First, Mrs. Mettam; Second, Mrs. Faddis; Consolation, Mrs. Harshbarger; Guest, Miss Stafford of Kemmerer.

Mrs. Louis Kladianos entertained the Ladies' Altar Society at her home on B. Hill, Wednesday evening. A delicious lunch was served. Prizes were awarded to Miss Rose Sullivan, Mrs. Hugh McLean, Mrs. John Yedinak and Mrs. Ima Conzatti.

Superintendent George A. Brown left May 1st for Cincinnati, Ohio, where he will remain until May 9, after which date he will proceed to Kingston, Pennsylvania, where he will join Mrs. Brown and Junior.

The final Parent-Teachers Meeting was held on May 8th. The Boy Scouts put on the first part of the program which was a model Troop Meeting. Mothers of the Boy Scouts were hostesses and served delicious refreshments.

Mr. and Mrs. Hugh Waite and family left May 1st for their new home near Boulder, Wyoming. Their

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many friends in Superior wish them success in their new undertaking.

The Union Sunday School had a record attendance for the Mother's Day service on May 10th. Everybody is invited to the services of the Sunday School. Study and work for all!

Reliance

By BILLIE LAWRENCE

Mr. and Mrs. John Easton are in receipt of a new baby boy. Congratulations!

Mrs. Ebeling spent a few days visiting with friends in Cumberland.

Mrs. H. A. Lawrence has returned from Chicago where she was called by the death of her father.

Mr. Walt Johnson has arrived from Cumberland to take up his new duties as Reliance Store Manager. Mr. T. A. Marshall, our former Store Manager, will take charge of the Rock Springs Store.

Mrs. Roy Birchard of Standardville, Utah, is visiting at the home of her father, J. A. McPhie.

John Bastalich and Alvin Portwood are enroute to California by auto, where they expect to locate.

Mr. and Mrs. William Telck and Mrs. Richard Gibbs spent the week-end in Salt Lake City.

Mrs. Ed Vollack is a patient in the Wyoming General Hospital.

Luke Harrigan spent the Easter vacation visiting with his parents.

In the last Scout Court of Honor meeting, Jimmy Stark and Cecil McComas carried off the honors in medals.

If practice makes perfect, Reliance will have an excellent ball team among the boys this year.

Mike Patterakis and Pete Patterakis, sons of Mr. and Mrs. Patterakis of Reliance.

Our school term is nearly ended, and with it we have a mixture of both gladness and regret. During the past year, it is the unanimous opinion that under the supervision of Mr. Busby all classes of our school have made wonderful progress.

On May first all grades participated in a May Day festival. The first event of the day was a May pole dance and the crowning of the Queen of the May; the queen being Lois Baxter, a student in the sixth grade. In the afternoon there was a track meet, the Reliance, Winton and Dines students competing. In all rooms work done by all classes was exhibited.

Our new gymnasium is in the course of construction. We all are looking forward to the day of its completion. Also at the beginning of the next term we will have a fully equipped Home Economics Department.

All students are busy reviewing for the term final examinations. It is needless to say that great anguish prevails among the students. Oh well! two weeks will tell the story; flunk—pass?

Winton

J. A. Williams is now Store Manager at Winton, Harry Lyons has been transferred to Cumberland.

Jim Herd brought two two-and-one-quarter pound trout back from a fishing trip recently.

William Hudson is leaving Winton, where he has been employed as store bookkeeper.

The Rock Springs High School play "Babs" was enjoyed by a large number of Winton people.

A birthday party was given for Bob Slaughter's little daughter Verle. It was her sixth birthday, and a happy time was enjoyed by all the little folks.

Thos. Foster and H. D. Thomas have been to Cincinnati, Ohio, attending the National Mining Congress meeting. Mr. Foster represented The Union Pacific Coal Company, Mr. Thomas represented the Rock Springs Loader Company.

Winton recently enjoyed two ball games. The Number 7 Badgers took a smashing defeat in a one-sided game with the Number 3 Gophers, the score being 19 to 6 at the end of the game. This was followed by a game between the No. 3 Gophers and the Outside All-Stars. No. 3 still wears the laurel wreath, having scored a victory of 7 to 4. The Gophers are the Champions of Winton.

A baseball meeting was held and a Camp team is being formed.

Mrs. Vickroy recently underwent a serious operation.

C. E. Myers, Mrs. Popich and Mrs. Stockish have had their tonsils removed. Betty Hanks had an appendix removed.

Baby Pinar is in the hospital.

Mr. and Mrs. Hugh Gregory are the proud parents of a new boy, as are Mr. and Mrs. Ray Gourdin.

What Former Tono Graduates Are Doing

By ELMA RING—*Eighth Grade*

Mae Flani and Ruby Barber are attending Ellensburg Normal Training School.

Helen Androsko is a student at Success Business College in Seattle.

Mildred Colvin is attending Business College in Seattle.

Florence Mardicott is teaching school near Tono.

Hulda Rankin is teaching in one of the Tono schools.

Ralph Brierley is working in a store in Seattle.

Patrick Corcoran is working in the State Capitol Building.

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Three Orchestras
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Class Practice
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Service Unsurpassed

OUR PLACE
» » Is « «
Always Open

HELLO, *Old Timers*

OF INTEREST TO MINERS

DURING the Fall Season of the year of 1929 the EDEN VALLEY PROJECT put into its selling policy a new plan for the purchase of its Water Rights and Farm Improvements.

It is now possible for people who are not Farmers to obtain and own EDEN VALLEY FARMS with every assurance of success in operation and security of investment. Farms are to be made available for sale that have been improved and in operating condition, with fences in place and cabins ready to move into.

An Agricultural Department is at the disposal and for the education of purchasers not experienced in farming or farmerlike practice in EDEN VALLEY. Information on correct farming and irrigating is available and furnished without cost together with complete and continuous co-operation from the company. What could be more logical, in that the company's success cannot be greater than that of EDEN VALLEY land owners.

EDEN VALLEY FARMS are not hard to own as the down payment is small and the balance of the purchase price is carried under a liberal purchase contract that is fair to the buyer in its every provision.

MINERS should be interested in owning an EDEN VALLEY FARM that will mean an independent living to them in later years as well as a home with proper surroundings for home life so necessary to the rearing and educating of their children.

A number of MINERS have already bought EDEN VALLEY FARMS and join in the ownership of approximately 12,000 acres of land now under cultivation by first class farmers, many of whom have been on the project for more than fifteen years.

The Rock Springs Water Company does not hesitate to recommend investigation and choice of a farm before the acreage now available is too well picked over. Drop a line in the mail, telephone or visit the company's Rock Springs office for further information and appointment to go over the PROJECT without obligation even though no purchase is made.

ROCK SPRINGS WATER COMPANY

Room No. 1, Rock Springs National Bank Building
ROCK SPRINGS, WYOMING
Phone 566

"PROVIDE FOR YOUR FUTURE"

Mere Accumulation of Dollars is not enough.

A home with proper surroundings should be planned for and owned.

Tono Grade School Girls Basketball Team with Coach W. Nicholson standing in the rear. Upper row, reading from the left, the girls are: Ila Smith, Georgia Hudson, Dorothy Price, Elena Ring, Margaret Flani; Lower row: Phyllis Monaghan, Shirley Tamblyr, Theresa Barrett, Helen Livingston.

Rachel Davis is working as a stenographer in a law office in Centralia.

Ida Johnson is teaching school in Tumwater.

Elaine Warren is attending Junior College in Centralia, part of our State University, and is playing the pipe organ for the Fox Liberty Theatre.

Gladys Mardicott is working as a stenographer in Centralia.

Tono

By TONO SCHOOL

The honor roll for the fifth school period was as follows: First Grade: Betty Forsythe, Virginia Gentile, Elene Herivala, Eunice Martinia; Second Grade: Evelyn Forsythe; Third Grade: Jimmy Lockhart; Fourth Grade: Stella Barrett, Marie Davis; Fifth Grade: David Hall; Sixth Grade: Jack Hoage, Arthur Sandusky; Seventh Grade: Adelbert Board-

Stores in
Utah Arizona Idaho
Wyoming California Nevada

Schramm-Johnson Drugs
A Unit of Walgreen Company

Golf, Tennis and
Baseball Supplies

Prescriptions Carefully Compounded

ROCK SPRINGS, WYO.

DODGE BROTHERS SIX

$835

And Up, F. O. B. Factory

WITH MONO-PIECE STEEL BODY

Safe, Silent and Strong

On the Dodge Six you have a Mono-Piece Steel Body for the lowest price at which Dodge Brothers have ever offered this most advanced body construction. Virtually a single piece of steel, the Mono-Piece Body is strong, rigid and safe. It cannot rattle or squeak. It is mounted directly on the frame, instead of on sills—lowering the center of gravity and eliminating sidesway. With so safe and handsome a body, with so much in roominess, performance and beauty, the Dodge Six is by all comparisons a truly exceptional value. If you see it and drive it, you will want it.

SIXES AND EIGHTS
Upholding Every Tradition of Dodge Dependability

McCURTAIN MOTOR COMPANY
Phone 601

Seven Body Styles
$590 to $675
Prices f. o. b. factory.

Now One of the Lowest-Priced Cars in the World
PLYMOUTH
Chrysler Motors Product
Sold by Dodge Brothers Dealers Everywhere

$590
And up, f. o. b. factory.

IS YOUR *Wiring Safe?* IS IT *Convenient?*

GOOD wiring which passes inspection is free from hazard. Convenient wiring calls for light outlets of proper size in the proper places. It provides connections for your stand lamps and appliances. It anticipates your future needs.

SOUTHERN WYOMING ELECTRIC COMPANY
ROCK SPRINGS, WYOMING
Telephhone Number 901

» » STRENGTH « «

The Rock Springs National Bank is a veritable pyramid of strength.
Its reputation has been built by policies that are conservative.
It is examined periodically by the National Bank Examiner.
Its capital and surplus of $300,000 stand as protection for its customers.

[*No depositor could lose a cent until this fund were completely exhausted.*]

ROCK SPRINGS NATIONAL BANK
ROCK SPRINGS, WYOMING
Open Mine paydays from six to eight.

man, Willie Androsko; Eighth Grade: Elma Ring, Theresa Barrett, Helen Livingston, Phyllis Monaghan, Donald Davis.

On April 18th, Tono defeated Tenino in a hotly contested baseball game after playing two extra innings with a final score 4 to 3. The following week Tono defeated Bucoda with a score of 6 to 5. This is of a special interest to us as Tenino and Bucoda are yearly our rivals.

Achievement tests given by the County Superintendent to pupils of this school last month showed Tono to rank with the highest schools of the county in scholastic achievement.

In a "Better Home Week" poster contest Tono was fortunate enough to place in the county winners.

The annual school picnic will be held at Deep Lake on May 23rd.

Eighth grade graduates are putting out a small Annual this year to keep as a souvenir of their year's activities.

Tono Teaching Staff for 1930-1931

The Tono teaching staff for next year is as follows: Oliver R. Ingersoll, Supt., William Nicholson, Leona Sheldon, Myrtle Brierley and Hulda Rankin.

Cumberland

Grades 7 and 8 are preparing for the spelling contest for which the winners will receive a pair of shoes and a five-dollar bill.

Our Baccalaureate services were conducted by Bishop Young who also spoke at our graduating exercises.

The Grade School operetta was a joyful success.

A Junior and Senior banquet took the place of a prom and was wonderful in appointments and fun.

Store Manager Walter Johnson has been transferred to Reliance, Wyoming, as Store Manager. Harry Lyon, of Winton, has taken charge of Cumberland Store.

Mrs. R. Ebeling, of Reliance, has been the house-guest of Mrs. Axel Johnson.

A daughter has been born to Mr. and Mrs. Basil Wisniewski.

Mr. George Blacker, Superintendent, has been quite ill at Salt Lake City, Utah.

Mr. and Mrs. G. F. Wilde have been visiting at Coalville, Utah.

Cumberland is planning a farewell party in June for all the former residents and Old Timers. A hearty invitation is extended to all. The date will be announced later.

Paul Conti and family have moved to Ogden, Utah.

Rock Springs Drug Co., Inc.
T. C. CHIDESTER, Prop.
"COURTESY AND SERVICE"
OLD TIMERS WELCOME
Two Stores Near Your Home
744 Pilot Butte Ave. Phone 325
No. Front & K Sts. Phone 234
ROCK SPRINGS, WYO.

GRAND CAFE
(Opposite U. P. Station)
WELCOME Old Timers
OPEN DAY AND NIGHT
—Our Meals Satisfy—
Courteous Treatment to All Patrons.

You are invited to take a ride in the
Hudson Great 8
and
Essex Super 6
Western Auto Transit Co.
Rock Springs, Wyo.
Phone 109

Built by the World's Largest Producer of Rubber

336

US RUBBER

No wonder it's a fine tire...

In wearability the U.S. Royal offers you a record-breaking reputation—in low cost-per-mile it will outclass the entire field! For economy and safety ride on Royals. Start today!

GUARANTEED FOR LIFE!

THE UNION PACIFIC COAL COMPANY STORES

"Where Your Dollar is a Big Boy All the Time"

Rock Springs
Reliance
Winton
Superior
Hanna
Cumberland

The NEW U.S. ROYAL

FULLY GUARANTEED AND SOLD ON EASY PAYMENTS

And I'm planning to enter the horse shoe tournament if I can borrow an Old Timers button to wear.

Fudge! Who's worrying about the Hanging Gardens of Babylon? Miss Coffman should visit Frank Finch's hillside garden at Winton. All that is lacking is an Egyptian Queen.

Every once in a while we are reminded that "The great facts of birth and death alone are sufficient to make the world kin."

Only the sham knows everything; the trained man understands how little the mind of any individual may grasp, and how man must co-operate in order to explain the very simplest things.—Hans Cross.

Joy always demands that its joy be shared.

"When men face the world together, and are ready to stand shoulder to shoulder, the sense of comradeship makes each strong. This help may not often be called into play, but just to know that it is there if needed is a great comfort"—so say the Old Timers.

D. G. Jones, of Hanna, says he'll advise us when we've done a really good magazine, one in which there is enough Hanna news, that is.

Comradeship

I live in a little house,
But the door can open wide—
I live in a little house,
But the whole round world's outside!

Got Away With It

"Why don't you buy something at my table?" demanded the girl at the charity fair.

"Because I only buy from homely girls," said the man. "They have a harder time making sales."

The girl was not offended, and the man worked the gag right down the line.

MILLER'S PHARMACY
Prescription Druggists
Labor Temple Phone 7

HEARTY WELCOME EXTENDED
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Make Our Store Your Headquarters

Telephone 111
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ICE CREAMS
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Supplies and favors for
Parties and Banquets

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HOME OF
GOOD COFFEE

Old Timers Welcome

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We do Copying, Enlarging, Tinting.
Nothing too Difficult in Photography.

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CARS WASHED, POLISHED AND GREASED
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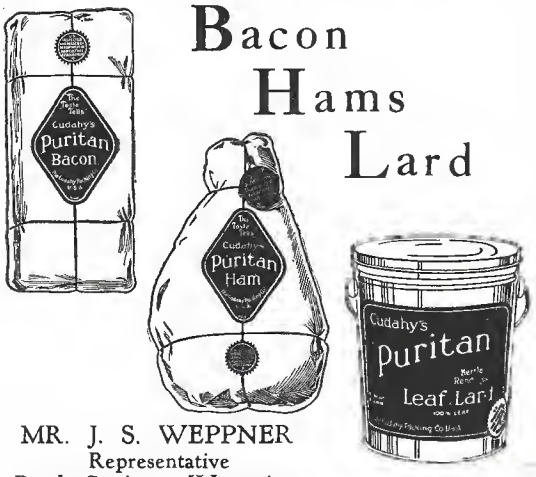

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Representative
Rock Springs, Wyoming

"The Taste Tells"
THE CUDAHY PACKING CO.
of Nebraska
NORTH SALT LAKE, UTAH

JOSEPH SCHOTT
Welcome Old Timers
Window Glass, Paints, Oils, Varnish, Stoves, Ranges and Kitchen Utensils
Garden Tools -- Hose
128 K Street ROCK SPRINGS

A Full and Complete Line of WALK-OVER SHOES
135-137 K Street
Cohen's Chicago Bazaar
ROCK SPRINGS

You'll enjoy

"SUPREME"

Cookies - Cakes - Crackers

—try Pilgrim Supreme Cookies, delicious new tid-bits, Supreme Salad Wafers, dainty salted wafers, Supreme honey flavored Graham Crackers and Supreme Milk Lunch Biscuits.

On the Radio--KOA

Each Monday evening at 9 o'clock tune in

OUR SUPREME SERENADERS

THE MERCHANTS BISCUIT CO.

Denver, Colo.

Welcome Old Timers

to the new

MAYFLOWER GRILL

Tasty and Delicious Meals

It's a pleasure for us to serve you.

436 South Front Street

(Opposite Union Pacific Station.)

E. L. WETZEL

CLEANING AND PRESSING OF FINE CLOTHES SOLICITED

From Office Assistants, Teachers and Others.

TELEPHONE 158W

TELEPHONE 169

LEWIS H. BROWN

ATTORNEY-AT-LAW

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ROCK SPRINGS, WYOMING

Spend all your "Spare" time

at

THE PLAY-MORE

BOWLING—DANCES—SKATING

ROCK SPRINGS

EMIL BERTAGNOLLI, BOB OLIVER, *Managers*

Welcome Old Timers

You thrill to new hat comfort under a style-right

SOLAR STRAW

Slightly swagger . . . and *so* soft . . . this zephyr-weight patent Milan! Under the hottest sun, the wearer is c-o-o-l. In three shades . . . natural, sand, gray. **$1.98**

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Rock Springs, Wyo.

Rock Springs Floral Shop
Established 1921
MRS. J. S. SALMON, *Proprietor*
315 North Front Street ROCK SPRINGS

CUT FLOWERS AND PLANTS
For All Occasions

GIVE US A CALL Phone 61
Hearty Welcome—Old Timers

KING FONG CAFE

451 No. Front Rock Springs, Wyo.

Short Orders and Regular Meals

PRICES REASONABLE

EXCELSIOR GARAGE

GARDNER
and
GRAHAM CARS

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TO THE—
Old Timers

Why not have that Portrait made while you are in town, by Mr. White, an artist from new York. Pictures made in studio or home.

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Upstairs
444 South Front Street Phone 167-W
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"THE PEOPLES' BANK"

Capital and Surplus $200,000

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TEXACO - ETHYL
—is different

Here is something new in gasolines—something different—something better. Car owners who have tried it are finding that Texaco Ethyl is really different. The difference is accounted for by the fact that Texaco, the driest of dry gases, permits complete and uniform diffusion of Ethyl through the manifold and into the cylinders of the engine. It means that every motorist can now have the quick starts, extra speed, pick-up and long mileage so characteristic of the new and better Texaco plus the famous anti-knock quality of Ethyl.

THE TEXACO COMPANY
TEXACO PETROLEUM PRODUCTS

SALES Ford SERVICE

Rock Springs Garage
JOHN E. WHISENAND, Prop.

ROCK SPRINGS, WYO.

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Better Service — More Sanitary

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ROSE *FLOWER and GIFT* **SHOP**
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The Best Cigars

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Canada Dry Ginger Ales

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Rock Springs, Wyoming

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Don't Buy Any Frozen

MEATS

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The Place to Get

Good Things to Eat

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LONG DISTANCE MOVING
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BAGGAGE TRANSFER—STORAGE

CRYSTAL ICE

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Phone: Day, 375; Night, 140

Spring is coming...

WE ARE headquarters for Muresco, Paints, Varnishes, Enamels, and Brushes. If you have paint to clean, see us. We have the best paint cleaner on the market.

Acme Glass & Paint Co.

227 C Street ROCK SPRINGS, WYO.

Auto Glass — Window Glass
Mirrors

ROCK SPRINGS STEAM LAUNDRY

SMITH BROS., Props.

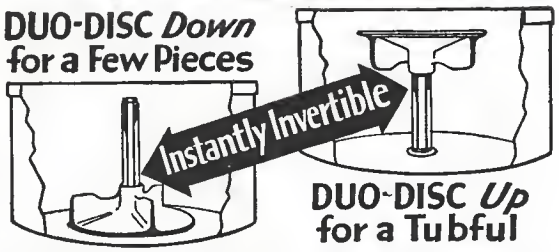
Rock Springs Phone 18

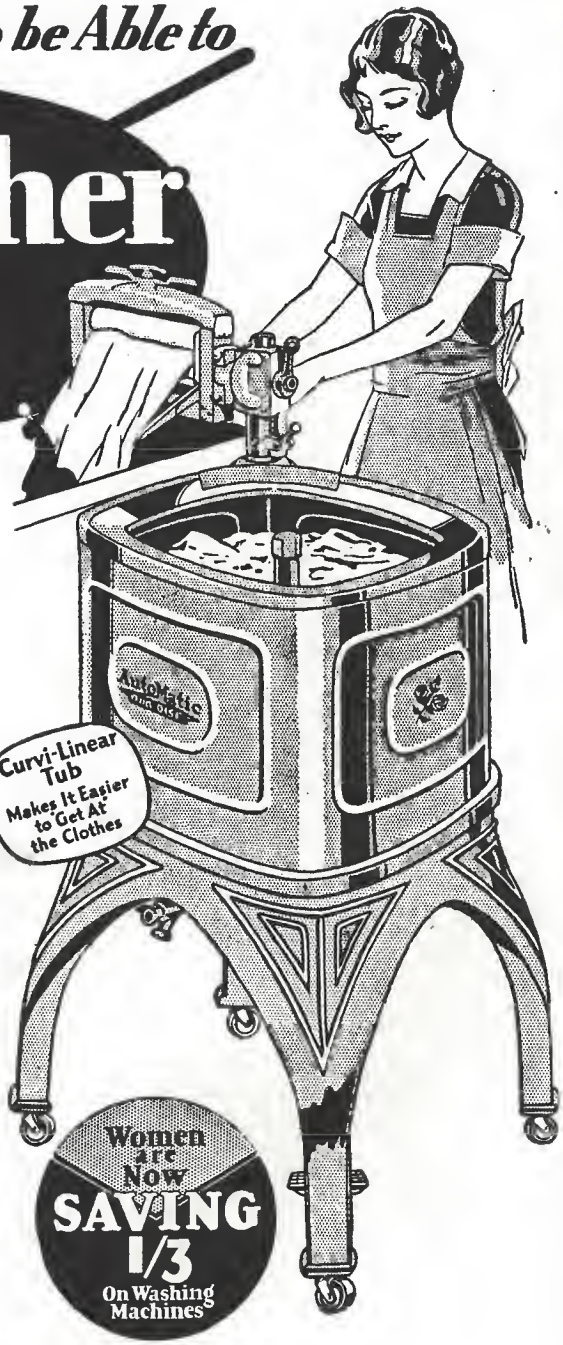
Woman, why bend thy willing back
And rub thy knuckles tender?

Jam the old washing in a sack
And to the Laundry send 'er.

Women All Agree
It's a Great Advantage to be Able to

Wash Either Way





Another problem solved in washing clothes—that's the opinion of women who have used the new Automatic Duo-Disc. It is truly a great improvement.

The Duo-Disc may be used above the clothes for unusually heavy washings or especially heavy pieces; or below the clothes for an average tubful or a few pieces.

Try this plan—we believe you will secure better results.

Only $99.50

Small additional charge when sold on easy payments

Even with this great improvement over all other Electric Washers, Automatic is still the Washer on which Women are Saving One-Third.

A great many women in this vicinity already have saved one-third on this beautiful washer—the Electric Washer backed by a 10-Year Guarantee Bond signed by the manufacturer.

AutoMatic DUO-DISC Electric Washer

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"Where Your Dollar is a Big Boy All the Time"

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